TRANSPORT & MASS TRANSIT DEPARTMENT

GOVERNMENT OF SINDH

PC – I (Re-Revised)

(PKR 5,847,436,004/=)

CONSTRUCTION OF ORANGE BUS RAPID TRANSIT (BRT) SYSTEM

From Town Municipal Administration, Orangi to Jinnah University of Women (Matriculation Board Office), Karachi

NOVEMBER 2022

SINDH MASS TRANSIT AUTHORITY
TRANSPORT & MASS TRANSIT DEPARTMENT
GOVERNMENT OF SINDH

GOVERNMENT OF PAKISTAN
PLANNING COMMISSION
(INFRASTRUCTURE SECTOR)

1	**Name of the Project**	**Construction of BRT Orange line.** [ADP Scheme # 3289 2022-23 **Annexure 01**]
2	**Location of the Project – Area Map**	The infrastructure of the Orange BRT project starts from *TMA office in Orangi and ends in-front of Jinnah University of Women* (near Matriculation Board Office). However, the Orange BRT bus operations are to be integrated with the Green BRT both physically and operationally. [Location map at **Annexure 2**]
3	**Authorities responsible for:** **i) Sponsoring** **ii) Execution** **iii) Operation & Maintenance**	 Government of Sindh Infrastructure works have been executed by Sindh Mass Transit Authority [**SMTA**] [under the aegis of Transport & Mass Transit Department] [Notification is at **Annexure 3**] Sindh Infrastructure Development Corporation Limited [**SIDCL**] is a public limited company established under the Companies Act 2017 [**Annexure 4**] According to a Facilitation & Implementation agreement (dated 27th November 2020) between SIDCL and TMTD, the procurement of buses & ITS, Orange BRT Operations and Maintenance works will be carried out by the SIDCL for three years however Government of Sindh will bear the cost. [copy of agreement **at Annexure 5**].
4 a	**Plan Provision:** **i) If the project is included in the medium term/five year plan, specify actual allocation.** **ii) If not then what warrants its inclusion and how is it now proposed to be accommodated.** **iii) If not included in the current plan, if the project is proposed to be financed out of block provision, indicate.**	 The project has been part of the annual development plan. For the year 2022-23, ADP Scheme No. is 3289 and total allocation is PKR 1136.383M (Capital = PKR 9.806M and Revenue = PKR 1126.577M) Not Applicable Not Applicable
4 b	**Provision in the current year PSDP/ADP**	

ADP	CAPITAL (M)	REVENUE (M)	TOTAL (M)
2015-16	2,063.308	18.065	2,081.373
2016-17	1,820.098	23.749	1,843.847
2017-18	1,477.62	25.82	1,503.441
2018-19	1,101.30	28.27	1,129.568

		2019-20 | 414.30 | 520.02 | 934.320 2020-21 | 371.00 | 472.35 | 843.350 2021-22 | 126.818 | 572.399 | 699.217 2022-23 | 9.806 | 1126.577 | 1136.383 A detailed chart mentioning annual release vs expenditure is also placed in the annexure **[Cost Estimates]**
5	**Project Objectives:**	The main project objectives are defined as under: a) The Orange BRT shall connect the Green Line BRT with the thickly populated areas of Banaras Colony and Orangi Town, thus resulting in increasing the ridership of Green Line with easy and convenient transfers, b) To provide reliable, safe, affordable, high quality and fast BRT Bus Service, c) To improve the quality of life of commuters and decrease in environmental pollution in Karachi, d) To provide infrastructure that allows buses to ply in an efficient manner with exclusive right-of-way for a significant portion of their route length, e) Reduce travel time, and f) Additionally, the Orange Line Project can also be very helpful for bringing substantial ridership to Karachi Circular Railway (KCR) in future, as the KCR is located close to the AO Clock Tower intersection. The revival of the KCR, operations of the BRTS in Karachi and recently launched Public Bus Service Project from SMTA will result in substantial decrease of road congestion and will change the culture from private vehicle ownership to increased ridership in public transport, given proper operations management and timely implementation. The study for Karachi Transportation Improvement Project (KTIP), 2009-2012, JICA, proposed a transport sector master plan up to the year 2030, in which the public transport polices focus on mass transit system such as:
	i) Objectives of the sector/sub sector as indicated in the medium term/five year plan be reproduced.	The Transport Master Plan prepared under the KTIP, by JICA proposes the revitalization of Karachi Circular Railway (KCR) on modern lines, 2 Mass Rapid Transit (MRT) lines (Blue and Brown Lines) and 6 BRT lines (Green, Red, Yellow, Orange, Aqua and Purple). Orange BRT shall be very helpful in increasing the ridership of the proposed Green Line BRT system (which is one of the busiest corridors proposed by JICA). **Annexure 6** shows the planned Mass Transit corridors as proposed by JICA in KTIP, 2030.
	ii) Linkages of the project with other sectoral objectives.	The Karachi Strategic Development Plan (KSDP) 2020 described 16 objectives for transport sector, among which following seven (7) are linked with this project:

		- Provide safe and efficient mobility for people/goods, - Improve public mass transportation system, targeting affordability and convenience, - Strengthen existing transportation infrastructure and services by considering various alternatives, - Minimize single-occupancy vehicle use, Evolving a comprehensive transportation plan development and modeling to address vehicular traffic, public mass transportation (bus line and rails based), parking to provide for development of roadway and public transport/mass transit infrastructure development priorities for long range - Develop transport infrastructure to support planned land use changes, especially strengthening links between Central Business District (CBD) and polycentric commercial center nodes. This will be ensured through proper physical and operational integration between ORANGE BRT and the Green BRT to cater for wider connectivity and hence ridership. - Improve safety, energy efficiency and air quality.
iii	**In case of revised Projects, indicate objectives of the project if different from original PC-I.**	The Project objectives are same as in the approved PC-1. The PC-1 is being Re-Revised primarily to incorporate i) Provisional cost estimates provided by the SIDCL vide Letter dated 14th October 2022 [**Annexure 7**] Previously, the SIDCL provided such cost estimates vide Letters dated 3rd November 2020 and 11th January 2021 [**Annexure 8**] for incorporation in the PC-1, in pursuance to the Facilitation & Implementation agreement, dated 27th November 2020, between GoS and the SIDCL [**Annexure 5**]. Fresh firmed up cost estimates have been sought from the SIDCL for incorporation in the Re-Revised PC-1. This is in line with the meeting held on 7th June 2022 under the Chairman P&D board wherein it was decided that "Re-Revision of the PC-1 (current approved cost of PKR 4.290 billion) to be carried out considering the completion of Orange BRT, additional works undertaken based on the SIDCL observations and subsequent operations of the Orange BRT" [minutes of meeting at **Annexure 9**] ii) To incorporate the expenditures incurred for the works undertaken based on observations from the SIDCL (i.e. their consultants, bus operators and ITS contractors) for smooth operationalization of the project. This also includes installation of platform screen doors, generator and wastewater treatment plant; already approved in the PC-1 of March 2021. A detailed chart has been attached in the **Cost Estimates** section **[Annexure-C]**.

6	**Description, Justification, technical parameters and technology transfer aspects (enclose feasibility study for Project costing Rs. 300 million and above)**	**a) Project Description** The Orange BRT is one of the 6 BRT corridors identified in the KTIP 2030 study by JICA. The proposed BRT route shall serve Orangi, Banaras Colony and Qasba Colony areas, few of the most thickly populated areas in Karachi. The Orange BRT has to be physically integrated with the Green BRT (connecting Surjani Town to Municipal Park, Saddar). Owing to this, the project has a significance to serve as a major connectivity among various proposed mass transit systems of Karachi. **UPDATED STATUS OF THE PROJECT SINCE THE APPROVAL OF THE PC-1 (March 2021):** The infrastructure works were on-going during the time, the revised corrected PC-1 was approved in March 2021. Parallel works were on-going on BRT stations and Bus Depot. The nature of works were civil, mechanical, electrical, finishing works etc. <nature of works to be mentioned here based on photos extracted> .Some photographs are attached at [**Annexure 10**]. Efforts were made for the completion of works however the construction works were slowed down due to unavailability of funds for payment to contractors. The funds became available in October 2021 [**Annexure 11**]. This delay slowed down major ongoing activities and the procurement of equipment. Subsequently, ITS consultant and contractors and also bus operator of SIDCL started visiting OL site frequently for closer coordination. During these visits (11th August 2021 and 3rd September 2021) they highlighted various works to be undertaken as part of infrastructure works, based on the precedents they faced during ITS works in Greenline project [**site visit report at Annexure 12**]. On 11th August 2021, ITS consultant (M/s BLIC JV M/s DCC) informed that they have proposed some changes in station's drawings [**Annexure 12a**]. Such changes resulted in various dismantling works i.e. removing tiles from floor and walls, relocation of underground conduits. M/s Daewoo also kept on visiting OL site for coordination with SMTA from bus operations point of view. They highlighted some observations and works to be undertaken vide their letter dated 23rd November 2021 [**Annexure 12b**]. M/s Daewoo, in their site visit added many additional works and modifications to be undertaken at bus depot. Some of these works were also agreed to be undertaken as a part of on-going infrastructure works because of their importance for the operationalization of the Orange BRT project. Further procurements were undertaken to procure Platform Screen Doors, Generator, wastewater treatment plant and some other required civil works. These contracts were awarded in January 2022. <letters of technical. / financial evaluations [**Annexure-13**] Scope of work for Package 3: Supply and Installation of Platform Screen Doors at Bus Stations (1 to 4) and Diesel Generator set at bus depot [**Annexure 13a**]

		Scope of work for Package 4: Bus Rapid Transit System (BRTS) "Orange Line" – Civil Works (bus sheds, ITS conduits for integration of OL and GL, wastewater treatment plant, underground fuel tank) [**Annexure 13b**] On 22nd February 2022, the SIDCL and their consultants / ITS contractors / bus operator visited OL site and submitted a detailed site visit report in which various additional requirements for ITS and Bus operation were raised [**Visit Report – Annexure-14**]. These requirements were of considerable financial implications and SMTA only undertook those works that were absolutely necessary for smooth operationalization and communicated to SIDCL to undertake remaining requirements in their own O&M contracts (for example barbed wire on walls of Bus Depot) [**Annexure – 14a** - Email dated 8th June & 9th March 2022]. SIDCL continued adding various works which had to be incorporated for the sake of bus operation requirements (for example, docking rubber at bus stations to avoid damage of buses and 4 to 5 containers at bus depot for tyre shop, repair area, maintenance shop). The reason for asking for containers was justified due to shortage of storing space in bus depot. [**Annexure14b**]. In May 2022, the new Minister TMTD visited OL project and directed all stakeholders for early completion of the project. Efforts were made to ensure round-the-clock continuity of works and closer coordination with SIDCL. The efforts were undertaken not only to complete the infrastructure works but also to prepare for operationalization of the OL BRT [some photos are at **Annexure 14c**]. [List of additional works attached at **Annexure 14d**]. Subsequently, on 6th June 2022, IITS Consultant, SIDCL, Daewoo and SMTA jointly visited the site wherein IITS Consultant / Contractors highlighted numerous modifications due to their layout plan and added further additional works i.e. heavy studs, speed breakers, SS railing along Turnstile, modification in TVM cabins [letters at **Annexure-14e**]. **Deployment of Security** In May 2022, the infrastructure works were at very advanced stage and equipment had to be installed including generators at bus stations, electric and power cables etc. Since, these are costly items and there were precedents of theft cases of cables from OL and GL projects, SIDCL was requested to deploy security guards (under their station management contracts). Also, during his visit, Minister TMTD instructed to ensure sufficient safety measures to be undertaken for the OL project. The OL buses were arrived at Bus Depot on 16th June 2022 therefore ensuring security measures were important. [Correspondence at **Annexure 15**].

		Torrential Rains: The monsoon rains started in June and continued till August 2022 badly hampered the works at site. The installation of IITS equipment and cable laying could not be undertaken due to presence of rain water in conduits and beneath the tiles/floors. As per the recommendation of IITS and Electrical teams, the installation of equipment and laying cables were stopped in presence of rains and dampness. It ultimately caused delays in completion timelines of the project [photographs are attached – **Annexure-16**]. **Trial Run of buses at OL Project:** On 22nd June 2022, when infrastructure was almost ready for bus operation, a trail run of buses was carried out in presence of all stakeholders including consultants and contractors. During trial run, several minor observations were raised by SIDCL / Daewoo and communicated vide email dated 23rd June 2022 [**Annexure-17**]. **Inauguration:** The project was inaugurated on 10th September 2022. On the same day, formal bus operations were started. [**Annexure 18**] **Preparation of Inventory List** Prior to the handover of OL project to the SIDCL, a detailed exercise was undertaken by SMTA and SIDCL for preparation of inventory list. The project inventory was witnessed and signed jointly and acknowledgement letters received from SIDCL on 24th & 30th September 2022 are attached (inventory list and correspondences at **Annexure-19**). **Financial Matter with SIDCL** Based on the F&I agreement signed with SIDCL, the GoS has to make payments for procurement of buses, ITS and operations of OL BRT (for 3 years) [Article 3 Mandate (3,4)]. Also, clause 5 of this Article 3 is reproduced below: *"Besides estimated costs for procurement and operations, GoS shall pay SIDCL, on demand, any actual charges for OL BRTs procurement and operations, including increase in price under Project Contracts due to variation, taxes and insurance charges"* In this regard, the GoS has made a total of PKR 1,578.079M payment to the SIDCL out of which PKR 583.983M has been recently paid to the SIDCL. SIDCL followed up frequently for the payments to be made and one of the reasons for this revision of the PC-1 is to incorporate firmed up cost estimates from the SIDCL, considering the operationalization of OL BRT for next three years. [correspondence with SDICL at **Annexure 20**] **Lifts and Escalators of Package 1** As a part of design and for the purpose of accessibility (especially for old age and handicap riders), the OL project has been provided Lifts and Escalators (L/E) at all 4 stations. In total, there are 11 lifts and 10 escalators installed at the Project.

	LIFTS	ESCALATORS	BID COST (M)
Package 1	6	6	113.30
Package 2	5	4	95.75
TOTAL	**11**	**10**	**209.05**

It was reported from Package 1 contractor that certain parts have been stolen or got malfunctioned. Because of this, 4 lifts and 1 escalator are currently not functional in Package 1. Various correspondence / meetings have been held with the contractor to complete the technical formalities of L/E to operationalize them. The supplier of these lifts/escalators, M/s MERIN has communicated cost estimates of these parts vide their email dated 10th August 2022 [**Annexure-21**]. An approximate cost of **PKR 56.141M** has been estimated with 1USD=PKR 218.7169 to make these Lifts/Escalators operationalize **[Annexure-21a]**. However, it may be noted that the partial cost of the L/E has already been paid to the contractor and it was the sole responsibility of the contractor to ensure protection of these L/E. Many verbal and written instructions were given to the Contractor (M/s MS Engineering) for rectification of lifts/escalators and other remaining works. The Contractor does not respond positively; rather requested SMTA to assist in this regard and recover additional cost implication through the contract provisions (letter dated 15th June 2022 at **Annexure '21b'**).

As a result on all above, the lifts and escalators are non-operational and SIDCL has highlighted malfunctioned lifts (04 No.) and escalator (01 No.) in inventory which are non-operational due to missing / damages / stolen parts of equipment. Whereas SIDCL is highlighting the issues and their impacts on the bus operations (**Annexure-'21c'**).

It is proposed to include the amount of Rs. 56.14 M (say 60 M for unexpected Dollar variation) provided by M/s MERIN in Revenue Component of this PC-1 to transfer SIDCL for rectification of lifts/escalators by their O&M contract. Whereas a recovery be made of same amount from retention monies and any expected bills against work done of M/s MS Engineering Services. The same matter was discussed in a meeting under the chairmanship of Honorable Chief Minister Sindh. Also a Summary to CM (Summary No. 171 dated 16th August 2022) [Minutes of Meeting and copy of Summary attached at **Annexure-21d**]. However, the amount requested in the Summary above, has now been incorporated in this PC-1.

Technical Parameters (Design Specifications)

Route Length

Total Length = 3.88 Kms (from TMA office till Jinnah University for Women)

At-Grade Dedicated Section: 1.651 Kms

Elevated Section: 0.729 Km

Mix Traffic: 1.5 Kms (at Bacha Khan Flyover)

Stations:
Total 4 (one elevated and three at-grade)
2 station each in Package 1 and Package 2.
The additional 2 stations along the Green BRT corridor adjacent to the Green BRT Station (in front of Dilpasand

		shop) as per the proposal of the operational consultants are to be undertaken by the SIDCL.
7	**Capital Cost Estimate**	i) Overall Cost Summary for Re-Revised PC-1 (November 2022) with total cost of PKR **5,847,436,004/=** is attached in the **Cost Estimates** section. It is mentioned that the estimates in Total Construction Cost under INFRASTRUCTURE has been included considering the anticipated payments yet to be made to the Contractors against the work done and relevant escalations. As a part of the process, these payments are recommended by M/s NESPAK to the client (SMTA) and subsequently SMTA issue the payment. **3%** of the Infrastructure Cost has been included in **Contingency** proposed, considering the fact that the contracts are going to be closed and final billings is yet to be done including anticipated inflation and utilities issues or whatsoever operational requirements. *Therefore, it is strongly proposed to include this amount for catering any unforeseen expenditure or payments; as approved by the Consultant (M/s NESPAK).* The cost of the supervision consultant has been included till August 2022 (as well as Defects Liability Period of one year). ii) Infrastructure Works Cost estimates (and comparative analysis of Package 1/2/3/4 Construction Contracts). It may be noted that this comparative analysis has been made in between the Engineer's Estimate (prepared as a result of detailed design) and the Work Done till September 2022. Since the civil works have just got almost completed, the final cost expenditures can only be ascertained when the Final Bill from the contractor is processed. iii) Provisional Estimates **[Annexure-22]** provided by the SIDCL for procurement of 20 BRT Buses and ITS equipment, Bus Operations & Maintenance (annually for three years) and Integration and infrastructure maintenance are provided at **[Cost Estimates]**. A summary table of cost estimates provided by the SIDCL is mentioned below.

REVISED PC-I

(Buses & IITS Equipment) Part B

Description	Amount in FEC (USD)	Original PC-I (Rs. in million)	Revised PC-I (Rs. in million)	Comments
		Rupees	Rupees	
CAPEX COST				
12m Diesel Hybrid Buses (20 Nos.)	$ 3,110,600	497,696,000	677,577,145	- Cost of Buses Rs. 677.572 Million (USD 3.65m) - Taxes include taxes (L/C) paid on import of buses and its parts - Detailed breakup of Cost as at **Annexure-A**
Full spare parts package for BRTS vehicles from delivery of vehicle through the duration of the contract	$ 335,333	53,448,000		
Supply of tools and diagnostic equipment for BRTS vehicles	$ 12,733	1,952,000		
Taxes & Duties (Buses, Spare Parts & tools)		179,170,560	235,320,963	
IITS (Hardware + Software)	$ 2,377,977	380,476,320	310,563,815	- Detailed breakup of Cost as at **Annexure-B** - Contract cost of IITS Package A of Rs 225.095m and B of Rs. 85.000m is inclusive of all taxes and duties
Taxes & Duties (Hardware + Software)		60,638,306		
Total (A) in PKR	**$ 5,866,077**	**1,178,379,186**	**1,223,476,923**	
OPEX COST				
Bus Ops O&M	187,234,740	561,704,220	475,081,443	- Detailed breakup of Bus Operator Cost at Rs 476.5m as at **Annexure-C** - Bus Operator cost is net of Fare Revenue
Total Revenue (Fare + Non Fare)	172,915,628	518,746,884	61,320,000	
Operations Deficit (5a-5b)	[illegible]	42,957,336	413,761,443	
ITS Operations	11,230,000	33,700,000	128,403,300	ITS Maintenance and support cost for Package A & B of Rs. [illegible] m and Rs. [illegible] m respectively. Cost basis as at **Annexure-D**
ITS Maintenance	-	44,000,000		
Station Management	43,200,000	129,600,000	391,558,727	It covers the cost of station management and Clearing House (Fund Management) - Detailed breakup of Cost as at **Annexure D1 & Annexure D2**
Operation Unit	20,000,000	60,000,000	60,000,000	
Maintenance supervision of vehicles	$ 254,600	40,736,000	42,420,000	Service cost for Bus Maintenance is USD [illegible] at fixed Dollar rate [illegible] for 3 years - Detailed breakup of Cost as at **Annexure-A**
Maintenance training program	$ 2,800	448,000	466,620	
Driver training program	$ 2,300	368,000	383,736	
Vehicle homologation & registration	$ 103,200	16,512,000	17,787,501	
Total (B) in PKR		**360,321,336**	**1,046,410,065**	
Add 2% Consultancy Charges (Design, Transaction, Legal & Ops Advisory)		30,934,010	66,536,146	- Detailed breakup of Cost as at **Annexure-E** - Cost of Consultancy contracts is charged at [illegible] to Orange Line
Add 2% Contingencies (Unforseen/Hedging/Price Variation/Ancillary)		30,934,010	45,397,740	
Add 2% Insurance of Government Asset (0.67% per year)		30,934,010	54,898,354	- Determined on the basis of one year premium paid to NICL for Marine, Motor and Fire Insurance for Buses and IITS Equipment - Detailed breakup of Cost as at **Annexure-F**
Add 2% Establishment Charges of SIDCL		30,934,010	45,397,740	
Improvement in Infrastructure (Physical Integration & Infra Maintenance)		450,000,000	500,000,000	Due to increase in price of Steel, Cement etc.
Total (C) in PKR		**573,736,040**	**712,229,976**	
TOTAL (A+B+C+D)		**2,120,436,562**	**2,982,116,965**	
AMOUNT REQUIRED TO BE APPROVED UNDFR THIS RLVISLD PC-I			**861,680,403**	

Final Cost per bus as per the procurement undertaken by the SIDCL: USD 155,530/=

Conversion Rate used: 1 USD= PKR 160

Ridership of ORANGE BRT: 24,225 passengers / day (analyzed by Consultants)

Fare revenue is calculated at an average Fare of PKR 20 per passenger

Non – Fare revenue is taken at 3% of the Fare Revenue because of fewer stations on the ORANGE BRT corridor.

These estimates clearly indicate that the Foreign Exchange Component is as follows:

FEC for 12m Diesel Hybrid Buses (20No):
USD 3,110,600

FEC for IITS (Hardware + Software + Taxes @30%):
USD 2,377,977

Total FEC: USD 5,866,077/= only to be given to SIDCL.

	Date of Estimation	The detailed design / engineer's estimates have been carried out in **2016** and the civil work procurement were carried out on the basis of the engineer's estimates prepared by the Consultant M/s NESPAK. Similarly, the base year to calculate provisional estimates for the procurement of Buses and ITS and Operations &

		Maintenance is 2020 provided by the SIDCL.
	Basis of Cost Determination	• The base year is 2016 for Infrastructure Works and 2020 for the procurement of Buses and ITS equipment. • USD / PKR parity: 1 USD = PKR 160 (as provided by the SIDCL) • The engineer estimates were prepared on the basis of market rates.
9	**<u>Demand/Supply Analysis</u>** **Existing capacity of services and its supply/demand**	There are total 20 (12 meter) buses procured for Orange Line BRT. Capacity of one bus is 80 passengers. Anticipated ridership reported by SIDCL consultants is 24,225 passengers per day (vide letter dated 3rd November 2020). [**Annexure-23**] The current ridership as reported by the SIDCL (vide letter SIDCL/OPS/2022/10171 dated 24th September 2022), since 10th September 2022 is as follows:- [**Annexure-24**] **Daily Ridership & Revenue of OL** Days / Date / Ridership Saturday 10-Sep-22 329 Sunday 11-Sep-22 925 Monday 12-Sep-22 3,216 Tuesday 13-Sep-22 3,621 Wednesday 14-Sep-22 3,718 Thursday 15-Sep-22 3,470 Friday 16-Sep-22 4,287 Saturday 17-Sep-22 3,870 Sunday 18-Sep-22 5,395 Monday 19-Sep-22 4,213 Tuesday 20-Sep-22 3,994 Wednesday 21-Sep-22 3,664 Thursday 22-Sep-22 3,889 Friday 23-Sep-22 4,168 Saturday 24-Sep-22 4,021 Sunday 25-Sep-22 4,978 Monday 26-Sep-22 4,153 Tuesday 27-Sep-22 3,854 Wednesday 28-Sep-22 3,612 This ridership is anticipated to be increased once the integration of the Orange line and Green line takes place. In the above mentioned letter, the SIDCL has highlighted to reroute the parallel competing public transport , launching media campaign, integration of feeder services from People's Bus Service project of SMTA to cater for ridership from Orangi and Baldia towns etc.
10	**Financial Plan** **Sources of Financing** **a) Equity** **b) Debt** **c) Grants**	100% by Government of Sindh (for Infrastructure, Procurement of Buses and ITS, Bus operations and maintenance, Integration with Green BRT project and Maintenance of infrastructure for three years) Nil Nil
11	**Benefits of the Project and Analysis**	The BRT infrastructure including procurement of buses and Revenue / ITS equipment and BRT Operations would be implemented under the public sector for which necessary

	Financial Benefits	funds are available with the Government of Sindh to be provided to SIDCL in pursuance to the Facilitation & Implementation Agreement dated 27th November 2020, through which the SIDCL has procured the BRT buses, ITS equipment and started Orange BRT operations for three years (since 10th September 2022). The operations will generate non-fare revenues as well however an operational subsidy has been envisaged / calculated by the operational consultants of SIDCL and duly included in the cost estimates to be provided to the SIDCL.
	Economic Benefits	The major economic benefits of the project are: • Travel time savings, • Vehicle operating cost (VOC) savings, • Reduction in vehicle emissions, and • Indirect benefits such as comfortable ride on modern air-conditioned buses from stressful minibuses and improvement of the city's image.
	Social Benefits	Orange Line BRTS shall connect the dense population of Orangi and Qasba with Central Business District (CBD) through the proposed Green Line BRT (already approved by ECNEC). Residents of these areas are direct beneficiaries of the project. Under the land-use restructuring program, shopping malls and high-rise buildings on both sides of the corridors would need to be developed to increase the ridership and revenue generation activities to make the project viable and improve the quality of life of people.
	Environmental Impacts	Mass transit projects have a positive impact on the environmental condition
12	**a) Implementation Schedule**	The infrastructure construction was started in June 2016 and completed in August 2022. The substantial completion certificates to be provided to the contractors in under process.
	Indicate starting and completion date of the project	The Bus Operations at the Orange Line project has commenced since 10th September 2022. For three years, the SIDCL has been mandated to run the bus operations and subsequently GoS will take over the operations from SIDCL, in line with the F&I agreement.
	Result Based Monitoring (RBM) Indicators	**[Annexure 25]**
13	**Management Structure and Manpower Requirements** **Administrative arrangements for implementation of project.**	In a meeting under the Chairmanship of the Honorable Chief Minister Sindh, approval for establishing **Sindh Mass Transit Authority** (*on the same lines that of the Punjab Mass Transit Authority*) was given. Subsequently, **the Sindh Mass Transit Cell** was notified on 23rd November 2016 as an interim setup (under the administrative control of the TMTD), however with all such functions as envisaged in the **SMTA** Act 2016. The **SMTA** was however notified on 5th October 2017.

<table>
<tr><td></td><td>The manpower requirements by skills during operation of the project be provided.</td><td>The SIDCL has provided indicative human resource strength for the BRT Operations Unit vide Letter at, produced below
<table>
<tr><td>1</td><td>General Manager (Operation)</td><td>9</td></tr>
<tr><td>2</td><td>Senior Manager (Bus Ops & ITS)</td><td>9</td></tr>
<tr><td>3</td><td>Manager (Procurement & Management)</td><td>18</td></tr>
<tr><td>4</td><td>Manager Transport & Bus Operations</td><td>10.80</td></tr>
<tr><td>5</td><td>Manager (Finance & Revenue)</td><td>10.80</td></tr>
<tr><td>6</td><td>Manager (NFR)</td><td>10.80</td></tr>
<tr><td>7</td><td>Communication / Public Relation Officer</td><td>10.80</td></tr>
<tr><td>8</td><td>Assistant Manager (IITS)</td><td>10.80</td></tr>
<tr><td>9</td><td>Assistant Manager (Bus Ops)</td><td>10.80</td></tr>
<tr><td>10</td><td>Assistant Manager (Admin)</td><td>10.80</td></tr>
<tr><td>11</td><td>Accounts Office</td><td>10.80</td></tr>
<tr><td>12</td><td>Accountant / Financial Operations (2)</td><td>10.80</td></tr>
<tr><td>13</td><td>Data Analyst (4)</td><td>10.80</td></tr>
<tr><td>14</td><td>Supervisor / Quality Control Inspectors (4)</td><td>10.80</td></tr>
<tr><td>15</td><td>Receptionist (1)</td><td>10.80</td></tr>
<tr><td>16</td><td>IT Assistant (2)</td><td>10.80</td></tr>
<tr><td>17</td><td>Drivers (5)</td><td>10.80</td></tr>
<tr><td>18</td><td>Dispatch Riders (2)</td><td>10.80</td></tr>
<tr><td>19</td><td>Office Boys (4)</td><td>10.80</td></tr>
<tr><td>20</td><td>Contingency Staff (3)</td><td>10.80</td></tr>
<tr><td></td><td>TOTAL</td><td>219.60</td></tr>
</table></td></tr>
<tr><td>14</td><td>Additional projects / decisions required to maximize socio-economic benefits from the proposed project</td><td>i. Proper integration of ORANGE BRT and Green BRT must be implemented to ensure connectivity and convenience of passengers.
ii. Enforcement of traffic laws to achieve lane discipline and proper implementation of traffic management techniques.
iii. Policymaking and implementation of TOD along ORANGE BRT.
iv. Extension of the ORANGE BRT, as Phase II, to be taken up on immediate basis to cover wider connectivity and hence increased ridership. The study conducted for the travel demand needs to be updated to cater for this extension.
v. Accessibility to be provided at the Bacha Khan Bridge for the public residing under the bridge.</td></tr>
<tr><td>15</td><td><u>Certificate</u>
The name, designation and Phone # of the officer responsible for preparing and checking be provided.
It may also be confirmed that PC-I has been prepared as per guidelines issued by the Planning Commission for the preparation of PC-I for Infrastructure Sector projects.
The PC-I along with certificate must be signed by the Principal Accounting Officer to ensure its ownership.</td><td></td></tr>
</table>

ADP SCHEME # 3289, 2022-23 CONSTRUCTION OF BRT ORANGE LINE (Revised Corrected PC-1 Cost of PKR. 5,847,436,004

Prepared by:

03/11/22

(**Assistant Director Infrastructure**
Sindh Mass Transit Authority)

03/11/2022

(**Deputy Director Infrastructure,**
Sindh Mass Transit Authority)

Checked by:

03/NOV/2022

(**Director Infrastructure / Projects**, Sindh Mass Transit Authority)
and Project Director Orange Line (Addl. Charge), SMTA

Recommended by:

3/11

(**MANAGING DIRECTOR**, Sindh Mass Transit Authority)

Approved by:

(**SECRETARY** - Transport & Mass Transit Department,
Government of Sindh)

ADP SCHEME # 3289, 2022-23 CONSTRUCTION OF BRT ORANGE LINE (Revised Corrected PC-1 Cost of PKR. 5,847,436,004

COST ESTIMATES

COST SUMMARY

FINAL COST ESTIMATES - ORANGE BRT PROJECT

Original PC-1 (2015)			Revised PC-1 (2021)		Re-Revised PC-1 (2022)	
S. No.	Description	Original PC-1 Amount (Rs.)	Revised PC-1 Amount (Rs.)	Comments	Re-Revised PC-1 Amount (Rs.)	Comments
A	**Infrastructure**					
1	Total Construction Cost	1,413,247,614	1,413,247,614	The construction works are on-going Remaining construction works can be finished within this amount.	1,471,197,004	The Construction works are almost completed and the contracts are anticipated to be closed within this provision.
2	Design Cost [1% of Total Construction Cost (1)]	14,132,476	18,387,032	No additional expenditure is expected under this head	18,387,032	Same as before
3	Geotechnical Investigation	6,000,000	3,000,000	No additional expenditure is expected under this head. The savings under this head may be re-appropriated as per the approval of the P&D department	3,000,000	Same as before
4	Environmental Impact Assesment	5,000,000	1,000,000	No additional expenditure is expected under this head The savings under this head may be re-appropriated as per the approval of the P&D department.	1,000,000	Same as before
5	Detailed Supervision [2% of Total Construction Cost(2)]	28,264,952	200,121,728	The Revised amount includes Consultant's monthly fees till September 2022 and also till end of DLP i.e August 2023.	251,833,245	The revised amount includes the Consultant's monthly fees till September 2022 including DLP i.e. August/September 2023 and retention monies.
6	Design Vetting Consultant [1% of Const Cost(1)]	14,132,476	-	This head is no more needed since the construction has not been undertaken in EPC	0	Same as before
7	Establishment Charges [4.8% of Total Construction Cost (1)]	28,264,952	58,515,545	The Revised amount includes monthly PMU expenditures till end of DLP i.e June 2022 This includes operational expenditures like office rent, purchase of vehicles, equipment, furniture, utility, travel allowance, staff salaries To be considered as REVENUE componenent	100,000,000	An expenditure of total of PKR 7,714,406/= has been made in this head in FY 2021-22. This additional proposed amount of PKR 33,770,049 includes salary component of two PMU officers **(Admin & Account Officer and IT Manager)** and other operational expenditures **(Annexure-26)**
8	Third Party Monitoring [1% of Total Construction Cost(1)]	14,132,476	-	This head is being deleted as per decision of Technical Committee Meeting. P&D.	0	Same as before
9	Utility Relocation	200,000,000	266,900,643	No additional expenditure is expected under this head. PKR 260,358,291/= has been spent under this head already	296,366,501	PKR 260,358,291 + PKR 11,008210. An Amount of 11.008 M spent in water connections at bus depot and bus station [04 No.] and K-Electric cables at bus depot (Annexure-27). A provision of an amount of Rs. 25 million is made to anticipate any utility work will encounter during 3 years bus operation on Orange line corridor (for e.g. possible water leakage issues)
10	**Platform Screen Doors (32 No.)**		92,571,869	This is an additional item that must be installed at all four stations to ensure operational integration with Green BRT project	133,547,100	PSD bid price from Package-3. However, 28 No. PSDs have been installed at Orange Line as per stations design.
11	**Generator (400 kVA, 415 volt)**		17,224,862	Reference to the SIDCL visit to BRT depot of OL and SIDCL letter NO. SIDCL/CFO/2021/8529 dated 9th February 2021 regarding the mandatory condition to install wastewater treatment plant as per directives from SEPA Please see this letter, an email from NESPAK dated 19th February 2021 and details of this cost/rates attached in *Cost Estimates* section. The cost of sheds over the washing / maintenance areas can be borne from the Total Construction Cost (1) and no separate cost needs to be added for this	26,104,200	Generator bid price from Package-3. However, 350 KVA generator has been installed as per bus depot design.
12	**Wastewater Treatment Plant facility**		10,000,000		18,610,000	From bid price Package-4
	Sub Total	**1,723,174,946**	**2,080,969,293**		**2,320,045,082**	

FINAL COST ESTIMATES - ORANGE BRT PROJECT

Original PC-1 (2015)			Revised PC-1 (2021)		Re-Revised PC-1 (2022)	
S. No.	Description	Original PC-1 Amount (Rs.)	Revised PC-1 Amount (Rs.)	Comments	Re-Revised PC-1 Amount (Rs.)	Comments
13	Contingency (3%)	51,695,248	-	This head is being deleted as per decision of Technical Committee Meeting. P&D	69,601,352	A provision proposed of an amount of Rs. 69.601 M for unexpected price changes due to inflation and anticipated utilites issues [i.e. K-Electric, SSGC, KWSB etc.]. This is also proposed to be considered to cater for any unforseen expenses during the closure of the contracts.
	Total	**1,774,870,194**	**2,080,969,293**		**2,389,646,434**	
14	Escalation Amount (Rs.)	89,367,000	89,367,000	The claims have been processed considering the current Extension of Time (EOT) approved by the Consultant. Further claims (if any) may be covered under the head of Total Construction Cost (Head#1).	350,000,000	PKR 140.017 M has already been paid in terms of escalations, based on contractual provisions and as recommeded by the Consultant. Additional provision is included for the anticipated amount based on the final extensions of time and entire billings yet to be determined before the closure / finalization of contracts.
15	Retention Monies to be returned to the Contractors	0	0	N/A	65,672,604	The retention monies (5% against verified running bills) amounting to Rs. 65,672,604 has to be returned to the Contractors.
16	**Total Cost of Infrastructure, Design, Supervision and Relocation**	**1,864,237,194**	**2,170,336,293**	Additional amount of PKR 295,194,577 includes regularization of the expenditures paid in addition to the approved amount under respective heads as well as the cost of PSD (head # 10). Part of this amount may be reappropriated within the heads of approved PC-1 as per the approval of the P&D Department.	**2,805,319,038**	This difference of PKR 566.965 million *mainly* attributes to the provision kept in anticipation of infrastructure contracts closure, increased bid prices under item # 10,11 & 12 and establishment charges

	Revised PC-1 (2021)			Re-Revised PC-1 (2022)	
B	**Buses & ITS Equipment (Capex Cost) provided by the SIDCL**				
S.No	**Description**	**Amount**	**Comments**	**Re-Revised PC-1 (PKR)**	**Comments**
1	12 m Diesel Hybrid Buses (20 Nos.)	$3,110,600	Cost of 1 bus = USD 155,530/ as per the financial bid opened by SIDCL (Letter SIDCL(GLBRTS)/COO/2020/8010 dated 3rd November 2020)	677,572,145	Cost of Buses Rs. 677.572 Million (USD - 3.488 Million). Taxes includes (L/C) paid on import of buses and its parts. Detail breakup of cost as at Annexure-A*
2	Full spare parts package for BRTS vehicles from the delivery of the vehicle through the duration of the contract **(B1a)**	$365,300	Reference to a letter from SIDCL after the Technical Committee was held vide SIDCL(GLBRTS)/COO/2020/8395 dated 11th January 2021 wherein SIDCL clarified that these are ancillary heads to be considered part and parcel of bus procurement and whose costing was missed in the cost summary sheet earlier. These are the items associated with the procurement of buses. And to be paid in US dollar. Please note that the cost of the buses i.e USD 3,110,600 is counted only once in the total sum. Although the same is mentioned twice in this summary.		
3	Supply of tools and diagnostic equipment for BRTs vehicles **(B1b)**	$12,200			
4	Taxes & Duties (Buses, Spare Parts & Tools	PKR 179,170,560		235,320,963	

FINAL COST ESTIMATES - ORANGE BRT PROJECT

Original PC-1 (2015)			Revised PC-1 (2021)		Re-Revised PC-1 (2022)	
S. No.	Description	Original PC-1 Amount (Rs.)	Revised PC-1 Amount (Rs.)	Comments	Re-Revised PC-1 Amount (Rs.)	Comments
5	IITS (Hardware + Software)	$2,377,977		Procurement for IITS hardware and software including taxes to be undertaken under this head	310,583,815	Detailed breakup of cost as at Annexure-B*. Contract cost of IITS Package A of PKR 205.898M and Package B of PKR 85.083M is inclusive of all taxes and duties.
6	IITS taxes & duties (Hardware – Software)	PKR 60,636,306				
	Total	**$5.866,077**	**239.806,866**	**TOTAL USD 5,8566,077/= is to be paid as Foreign Exchange Component in USD**	**1,223,476,923**	Excess of PKR 45.097 million has been demanded by SIDCL under this head.
	Total (A) in PKR	**1,178,379,186**			**1,223,476,923**	

	(OPEX COST)	PKR	Amount in PKR (3 years)	Comments	Re-Revised PC-I (Rs.)	Comments
5a	Bus Ops O&M	187,234,740	561,704,220	BRT operations are covered under this head. Fare revenue is calculated at an average Fare of PKR 22 per passenger. Non – Fare revenue is taken at 3% of the Fare Revenue because of fewer stations on the Orange BRT corridor. Ridership of Orange BRT. 24,225 passengers / day (analyzed by Consultants)	475,081,443	Detail breakup of Bus Operator cost at Rs 156/KM as at Annexure-C* . Bus Operator cost is net of Fare Revenue.
5b	Total Revenue (Fare + Non-Fare)	172,915,628	-518,746,884		-61,320,000	
5c	***Operations Deficit (5a-5b)***	**14,319,112**	**42,957,336**		**413,761,443**	
6	ITS Operations	11,230,000	33,700,000	ITS operations are covered under this head Details provided in the cost estimates.	120,493,300	ITS Maintenance and support cost for Package-A & B of Rs. 46.496 million and Rs. 63.60 million respectively. Cost basis as at Annexure-B*.
7	ITS Maintenance (2 yrs warranty – 1 year S&M)		44,000,000	Maintenance of ITS equipment is covered under this head		
8	Station Management	43,200,000	129,600,000	Expenditures related to security, cleaning and minor maintenance	391,588,727	It covers the cost of station management and cleaning house (Fund Management). Detailed breakup of Cost as at Annexure-D1* & Annexure-D2*
9	Operation Unit	20,000,000	60,000,000	Exclusive unit under SIDCL to look after BRT operations and maintenance	60,000,000	Same as before.
		USD	**PKR**			
10	Maintenance supervision of vehicles	$254,600	40,736,000	Reference to a letter from SIDCL after the Technical Committee was held vide SIDCL(GLBRTS)/COO/2020/8395 dated 11th January 2021 wherein SIDCL clarified that these are ancillary heads to be considered part and parcel of bus procurement and whose costing was missed in the cost summary sheet earlier. These are the items associated with the procurement of buses. Please note that the cost of the buses i.e USD 3,110,600 is counted only once in the total sum Although the same is mentioned twice in this summary	42,429,090	Service cost for Bus Maintenance is USD 362,900 at fixed dollar rate of PKR 166.65 for 3 years. Detailed cost breakup is at Annexure A*
11	Maintenance training program	$2,800	448,000		466,620	
12	Driver training program	$2,300	368,000		383,295	
13	Completion of full vehicle homologation, registration and licensing for BRTS vehicles	$103,200	16,512,000		17,287,591	
	Total Subsidy Req. (B) (5C+6+7+8+9+10+11+12+13)		**368,321,336**	**PKR 368,321,336/= is to be paid as Pak Rupee Component**	**1,046,410,066**	Enhanced by PKR 678,088,730

FINAL COST ESTIMATES - ORANGE BRT PROJECT

Original PC-1 (2015)			Revised PC-1 (2021)		Re-Revised PC-1 (2022)	
S. No.	Description	Original PC-1 Amount (Rs.)	Revised PC-1 Amount (Rs.)	Comments	Re-Revised PC-1 Amount (Rs.)	Comments
	Total (A+B)	**1,546,700,522**			**2,269,886,989**	
14	Add 2% Consultancy Charges (Design, Transaction, Legal and Operations Advisory)	30,934,010		Consultancy services required for designing integration and operationalization of the ASE BRT Details provided in the cost estimates.	66,536,146	Refer to the detailed breakup of cost as at **Annexure-E*** for actual charges to be incurred as per the contract. Cost of Consultancy Contracts is charges at 16% to Orange Line.
15	Add 2% Contingencies (Unforseen/Hedging/Price Variation / Ancillary)	30,934,010		Unexpected price changes due to foreign exchange component and inflation	45,397,740	Enhanced by PKR 14,463,730.
16	Add 2% Insurance of Government Asset (0 67% per year)	30,934,010		Insurance cost necessary to secure the government assets considering any unfavorable circumstances.	54,898,351	Determined on the basis of one year premium paid to NICL for Marine, Motor & Fire insurance for buses and ITS equipment. Detailed breakup of cost as at **Annexure-F***
17	Add 2% Establishment Charges of SIDCL	30,934,010		Administrative expenditures of the SIDCL establishment are covered under this head.	45,397,740	Enhanced by PKR 14,463,730.
18	Improvement in Infrastructure (Physical Integration & Infrastructure Maintenance)	450,000,000		Cost of physical integration of ASE and Green BRT and annual maintenance of the ASE BRT dedicated corridor for 3 years rationalized after Technical Committee Meeting.	500,000,000	Due to increase in price of Steel, Bitumen, Cement and etc.
19	Rectification of Lifts/Escalators	0			60,000,000	**Proposed amount to be paid to the SIDCL** for rectification of Lifts/Escalators through their O&M contract. This amount is currently not included in the estimates provided by SIDCL. Once approved, the SIDCL will be asked to undertake this rectification through their O&M contracts.
	TOTAL (to be given to SIDCL)	**2,120,436,564**		To be considered as REVENUE component	**3,042,116,966**	Difference of PKR 921.680 million as compared to the earlier approved amount including PKR 60million for rectification of Lifts/Escalators. Under Revenue head
	TOTAL Revised PC-1 Cost	**4,290,772,857**			**5,847,436,004**	Difference of PKR 1556.633 million as compared to the earlier approved PC-1 amount.

BRTS ABDUL SATTAR EDHI LINE (FORMERLY BRTS ORANGE LINE)
PACKAGE - 1 : M/S MS ENGINEERING SERVICES
COMPARATIVE STATEMENT

Code No	Description	Engineer's Estimate				Bill of Quantities (BOQ)			Current Work Done Status			
		Unit	Quantity	Rate	Amount (Rs) [A]	Quantity	Rate	Amount (Rs) [B]	Quantity	Rate	Amount (Rs.) [C]	Difference [A-B]
1	**Demolition Works**											
01-1c	Dismantling/cutting of existing load bearing structures building	Sqm	50	1500	75,000	50	100	5,000	94.406	100	9,441	70,000
01-2c	Dismantlig/removal of existing median i/c disposal of materials	Sqm	765	250	191,250	765	86	65,790	2,314.56	86	199,052	125,460
01-3c	Dismantlig/removal of existing kerb stone i/c disposal of	RM	107	785	83,995	107	45	4,815	3,784.00	45	170,280	79,180
01-4c	Dismantling/removal of existing footpath i/c disposal of materials	Sqm	1,300	620	806,000	1,300	65	84,500	2,266.20	65	147,303	721,500
01-5c	Dismantling/removal/shifting of existing sign boards i/c	No	1	48000	48,000	1	2,000	2,000	-	2,000	-	46,000
01-6c	Removal of existing traffic signs and stacking of useable	No	4	13300	53,200	4	1,500	6,000	-	1,500	-	47,200
01-7c	Removal of existing streel light poles i/c bracket foundation and stacking	No	58	18300	1,061,400	58	2,500	145,000	31.00	2,500	77,500	916,400
01-8c	Removal of existing telephone poles i/c bracket, foundation and stacking	No	1	17050	17,050	1	1,000	1,000	-	1,000	-	16,050
01-9c	Removal of existing manholes i/c brackets, foundations and stacking	No	36	8600	309,600	36	1,200	43,200	-	1,200	-	266,400
01-10c	Tucking existing road surface by pickaxe upto 50 mm deep	Sqm	23,855	80	1,908,400	23,855	55	1,312,025	-	55	-	596,375
	Total of Demolition Work				**4,553,895**			**1,669,330**			**603,576**	**2,884,565**
2	**Flyover Works**											
	Earthworks											
02-1c	Excavation of all kinds of sub surface materials	cum	2,912	650	1,892,800	2,912	210	611,520	2,623.596	210	550,955	1,281,280
02-2c	Fill/backfill with selected	cum	295	200	59,000	295	530	156,350	4,067.997	530	2,156,038	(97,350)
02-3c	Sweet earthfill material outside source	cum	75	1300	97,500	75	280	21,000		280	-	76,500
	Sub Total of A				**2,049,300**			**788,870**			**2,706,994**	**1,260,430**
	Piling Works											
02-4c	Static load test on pile upto a load of 540 tonne	No	1	1350000	1,350,000	1	1,000,000	1,000,000	1.00	1,000,000	1,000,000	350,000
02-5c	Static load test on selected working pile upto a load of 170 tonnes	No	2	425000	850,000	2	800,000	1,600,000	1.00	800,000	800,000	(750,000)
02-6c	Low strain impact integrity testing of pile	No	122	5250	640,500	122	10,000	1,220,000	129.00	10,000	1,290,000	(579,500)

BRTS ABDUL SATTAR EDHI LINE (FORMERLY BRTS ORANGE LINE)
PACKAGE - 1 : M/S MS ENGINEERING SERVICES
COMPARATIVE STATEMENT

Code No	Description	Engineer's Estimate				Bill of Quantities (BOQ)			Current Work Done Status			
		Unit	Quantity	Rate	Amount (Rs) [A]	Quantity	Rate	Amount (Rs) [B]	Quantity	Rate	Amount (Rs.) [C]	Difference [A-B]
02-7c	Drilling of bore holes for piles 760 mm dia in all kinds of sub surface material i/c disposal				-			0				-
a	(0 to 20 meters)	RM	3,590	5800	20,822,000	3,590	5,500	19,745,000	1,965.00	5,500	10,807,500	1,077,000
b	(more than 20 to 35 meters)	RM	105	6800	714,000	105	6,000	630,000	-	6,000	-	84,000
02-8c	Class E dummy concrete using OPC to cover the exposed reinforcement of piles (optional)	cum	135	6500	877,500	135	5,500	742,500		5,500	-	135,000
02-9c	Class B reinfored concrete 760 mm dia piles using OPC	RM	3,590	6650	23,873,500	3,590	7,450	26,745,500	1,965.00	7,450	14,639,250	(2,872,000)
	Plain & RC Concrete				-			0				-
02-10c	Class E Concrete using OPC	cum	258	6500	1,677,000	258	5,500	1,419,000	153.010	5,500	841,555	258,000
02-11c	Class D Concrete using OPC	cum	130	8500	1,105,000	130	8,475	1,101,750	7.73	8,475	65,512	3,250
02-12c	Light weight foam concrete using OPC	cum	28	15000	420,000	28	6,000	168,000		6,000	-	252,000
02-13c	Class B reinforced concrete using OPC	cum	650	12375	8,043,750	650	9,993	6,495,450	538.789	9,993	5,384,118	1,548,300
02-14c	Class B reinforced concrete in pile caps OPC	cum	435	16900	7,351,500	435	10,345	4,500,075	660.174	10,345	6,829,500	2,851,425
02-15c	Class A fairfaced reinforced concrete in columns, piers using OPC	cum	250	22650	5,662,500	250	12,000	3,000,000	219.393	12,000	2,632,716	2,662,500
02-16c	Class A fairfaced reinforced concrete in transoms using OPC	cum	410	20450	8,384,500	410	12,000	4,920,000	407.510	12,000	4,890,120	3,464,500
02-17c	Class A fairfaced reinforced concrete in beam slabs using OPC	cum	400	19900	7,960,000	400	12,000	4,800,000	533.986	12,000	6,407,832	3,160,000
02-18c	Class B reinforced concrete in following				-			0				-
a	Abutment	cum	160	17500	2,800,000	160	9,992	1,598,720	23.859	9,992	238,399	1,201,280
b	Retining Wall	cum	320	18800	6,016,000	320	10,345	3,310,400	301.117	10,345	3,115,055	2,705,600
c	Diapharms	cum	290	18900	5,481,000	290	10,345	3,000,050	124.031	10,345	1,283,101	2,480,950
d	Shear Key	cum	40	13600	544,000	40	10,345	413,800	17.017	10,345	176,041	130,200
02-19c	Class A1 fairfaced prestreesed reinforced concrete in girders using OPC	cum	1,520	23250	35,340,000	1,520	14,477	22,005,040	1,539.039	14,477	22,280,668	13,334,960

BRTS ABDUL SATTAR EDHI LINE (FORMERLY BRTS ORANGE LINE)
PACKAGE - 1 : M/S MS ENGINEERING SERVICES
COMPARATIVE STATEMENT

Code No	Description	Engineer's Estimate				Bill of Quantities (BOQ)			Current Work Done Status			
		Unit	Quantity	Rate	Amount (Rs) [A]	Quantity	Rate	Amount (Rs) [B]	Quantity	Rate	Amount (Rs.) [C]	Difference [A-B]
02-20c	Class B fairfaced reinforced concrete using OPC in deck slab	cum	1,235	16500	20,377,500	1,235	10,593	13,082,355	808.936	10,593	8,569,059	7,295,145
02-21c	Class B fairfaced reinforced concrete in following				-			0				-
a	Approach Slab	cum	20	15300	306,000	20	10,593	211,860	18.480	10,593	195,759	94,140
b	Edge Barrier	cum	550	16200	8,910,000	550	10,593	5,826,150	475.101	10,593	5,032,745	3,083,850
c	Precast planks	cum	355	17500	6,212,500	355	10,593	3,760,515	120.096	10,593	1,272,177	2,451,985
d	Purdi	cum	25	16950	423,750	25	11,299	282,475	56.576	11,299	639,252	141,275
02-22c	Non Shrink grout	cum	4	125000	500,000	4	112,860	451,440	2.350	112,860	265,221	48,560
	Reinforcement (Sec 2200)				-			0				-
02-23c	Hot rolled worked billet steel bars A-706	tonne	935	120650	112,807,750	935	108,000	100,980,000	854.632	108,000	92,300,213	11,827,750
02-24c	Expansion joints b/w deck slabs	RM	270	35000	9,450,000	270	45,000	12,150,000	177.183	45,000	7,973,235	(2,700,000)
02-25c	Providing, placing and prestressing high tensile steel tendons ASTM A-416	tonne	69	240500	16,594,500	69	160,000	11,040,000	64.789	160,000	10,366,240	5,554,500
02-26c	Stronghold laminated neoprene bearing pads				-			0				-
a	Type B (350 x 500 x 39 mm)	No	235	55000	12,925,000	235	18,425	4,329,875	172.000	18,425	3,169,100	8,595,125
b	Type (250 x 400 x 30 mm)	No	168	40000	6,720,000	168	9,100	1,528,800	129.000	9,100	1,173,900	5,191,200
02-27c	Precast concrete paving tiles of 300x300x40 mm with 50 mm thick sand cushion	Sqm	970	2400	2,328,000	970	1,200	1,164,000	-	1,200	-	1,164,000
02-28c	Structural steel including fabrication erection	tonne	1	250000	250,000	1	345,000	345,000	-	345,000	-	(95,000)
02-29c	Aggregate sub base 300 mm thick	cum	365	1385	505,525	365	1,200	438,000	271.920	1,200	326,304	67,525
02-30c	Aggregate base coarse 200 mm thick	cum	245	1850	453,250	245	1,500	367,500	185.440	1,500	278,160	85,750
02-31c	Providing and laying bitumenous wearing coarse (50 mm thick)	Sqm	5,445	1550	8,439,750	5,445	725	3,947,625	4,918.931	725	3,566,225	4,492,125

BRTS ABDUL SATTAR EDHI LINE (FORMERLY BRTS ORANGE LINE)
PACKAGE - 1 : M/S MS ENGINEERING SERVICES
COMPARATIVE STATEMENT

Code No	Description	Engineer's Estimate				Bill of Quantities (BOQ)			Current Work Done Status			
		Unit	Quantity	Rate	Amount (Rs) [A]	Quantity	Rate	Amount (Rs) [B]	Quantity	Rate	Amount (Rs.) [C]	Difference [A-B]
02-32c	Precast class B fairfaced kerb stone of (150 x 300 x 300 mm) with 1:4 cement sand mortar with 20 mm cemnent sand	RM	1,615	1250	2,018,750	1,615	1,010	1,631,150	-	1,010	-	387,600
02-33c	Providing and applying traffic lane marking including arrows using thromo paint	Sqm	300	1050	315,000	300	1,250	375,000	248.773	1,250	310,966	(60,000)
02-34c	Providing and fixing two way reflectorized road pavement studs (light duty)	No	615	550	338,250	615	600	369,000	364.000	600	218,400	(30,750)
02-35c	Traffic sign boards (permenant) of following				-			0				-
a	Rectangular	No	6	24500	147,000	6	40,000	240,000	-	40,000	-	(93,000)
b	Circular	No	1	20500	20,500	1	30,000	30,000	-	30,000	-	(9,500)
02-36c	Providing and fixing 100 mm dia uPVC rain water drain pipe	RM	110	1525	167,750	110	350	38,500	24.800	350	8,680	129,250
	Sub Total of B				**352,172,825**			**271,004,530**			**218,347,003**	**81,168,295**
	Flyover (Electrical Works)											
02-1e	Following LED street / flood lighting fixture										.	-
a	Type ST1 (Street light 90 watts)	No	46	65000	2,990,000	46	53,000	2,438,000	46.000	53,000	2,438,000	552,000
b	Type ST2 (street light 200 watts)	No	28	111250	3,115,000	28	69,300	1,940,400	28.000	69,300	1,940,400	1,174,600
c	Type T1 (flood light 120 watts)	No	26	55000	1,430,000	26	52,000	1,352,000	24.000	52,000	1,248,000	78,000
02-2e (a	Single core multicore PVC insulated and PVC sheathed (4 core, 25 sq.mm PVC/PVC)	RM	3,410	1410	4,808,100	3,410	1,100	3,751,000	2,896.016	1,100	3,185,618	1,057,100
02-3e	Wiring of 10 meter high single / two arm street light column	No	74	5000	370,000	74	2,000	148,000	68.600	2,000	137,200	222,000
02-4e	Wiring of light circuit from outdoor LT distributor to first light point under bridge	No	6	20000	120,000	6	11,000	66,000	4.500	11,000	49,500	54,000

BRTS ABDUL SATTAR EDHI LINE (FORMERLY BRTS ORANGE LINE)
PACKAGE - 1 : M/S MS ENGINEERING SERVICES
COMPARATIVE STATEMENT

Code No	Description	Engineer's Estimate				Bill of Quantities (BOQ)			Current Work Done Status			
		Unit	Quantity	Rate	Amount (Rs) [A]	Quantity	Rate	Amount (Rs) [B]	Quantity	Rate	Amount (Rs.) [C]	Difference [A-B]
02-5e	Wiring from light point to point	No	20	11000	220,000	20	6,000	120,000	16.200	6,000	97,200	100,000
02-6e	Following sizes of underground uPVC class D				-			0			-	-
a	100 mm dia pipe	RM	150	1410	211,500	150	950	142,500	1,157.798	950	1,099,908	69,000
b	50 mm dia pipe	RM	3,895	410	1,596,950	3,895	470	1,830,650	6,435.965	470	3,024,904	(233,700)
02-7e	Following size of surface mounted GI conduit				-			0				-
a	25 mm dia	RM	350	510	178,500	350	516	180,600	316.200	516	163,159	(2,100)
b	50 mm dia	RM	200	1000	200,000	200	850	170,000	184.800	850	157,080	30,000
02-8e (a	Single core PVC insulated copper conductor	RM	3,410	300	1,023,000	3,410	243	828,630	2,500.000	243	607,500	194,370
02-9e	19 mm dia 3 meter long copper cladded steel rod type earth electrode	No	14	25000	350,000	14	50,000	700,000	13.000	50,000	650,000	(350,000)
02-10e	Following hot dipped galvanized, high performance epoxy painted galvanized steel lighting column				-			0				-
a	10 meter high column with one arm	No	18	100000	1,800,000	18	90,000	1,620,000	-		-	180,000
b	10 meter high column with two arm	No	28	105000	2,940,000	28	98,000	2,744,000	-		-	196,000
	Sub Total of C				**21,353,050**			**18,031,780**	-		**14,798,468**	**3,321,270**
	Grand Total (A+B+C) of Flyover				**375,575,175**			**289,825,180**			**235,852,465**	**85,749,995**
3	**ROAD WORK**											
03-1c	Excavation/cutting of all kinds of sub surface	cum	12,267	450	5,520,150	12,267	210	2,576,070	2,557.257	210	537,024	2,944,080
03-2c	Fill and backfill with selected materials	cum	450	200	90,000	450	530	238,500	740.316	530	392,367	(148,500)
03-3c	Providing and laying of sweet earth for filling	cum	1,766	1300	2,295,800	1,766	310	547,460	-	310	-	1,748,340
03-4c	Selected earthfill i/c compaction 95%	cum	2,227	1200	2,672,400	2,227	590	1,313,930	-	590	-	1,358,470
03-5c	Subgrade preparation with compaction 95%	cum	3,620	250	905,000	3,620	16	57,920	4,231.800	16	67,709	847,080

BRTS ABDUL SATTAR EDHI LINE (FORMERLY BRTS ORANGE LINE)
PACKAGE - 1 : M/S MS ENGINEERING SERVICES
COMPARATIVE STATEMENT

Code No	Description	Engineer's Estimate				Bill of Quantities (BOQ)			Current Work Done Status			
		Unit	Quantity	Rate	Amount (Rs) [A]	Quantity	Rate	Amount (Rs) [B]	Quantity	Rate	Amount (Rs.) [C]	Difference [A-B]
03-6c	Aggregate sub base 300 mm thick	cum	1,586	1385	2,196,610	1,586	1,200	1,903,200	928.800	1,200	1,114,560	293,410
03-7c	Aggregate sub base 200 mm thick	cum	112	1265	141,680	112	1,200	134,400	234.430	1,200	281,316	7,280
03-8c	Aggregate sub base 150 mm thick	cum	246	1225	301,350	246	1,200	295,200	-	1,200	-	6,150
03-9c	Aggregate base coarse 200 mm thick	cum	1,243	1850	2,299,550	1,243	1,450	1,802,350	679.400	1,450	985,130	497,200
03-10c	Aggregate base coarse 150 mm thick	cum	314	1750	549,500	314	1,450	455,300	175.822	1,450	254,942	94,200
03-11c	Providing and laying bitumenous binder (50mm)	Sqm	8,034	1550	12,452,700	8,034	680	5,463,120	6,176.700	680	4,200,156	6,989,580
03-12c	Providing and laying bitumenous wearing(50 mm)	Sqm	30,944	1050	32,491,200	30,944	725	22,434,400	29,432.280	725	21,338,403	10,056,800
03-13c	200 mm thick concrete pavement of flexural strength 4.50 Mpa	cum	112	18500	2,072,000	112	5,500	616,000	234.430	5,500	1,289,365	1,456,000
03-14c	Hot rolled worked billet steel bars A-706	tonne	208	120650	25,095,200	208	108,000	22,464,000	33.631	108,000	3,632,148	2,631,200
03-15c	Class E plain cement concrete using OPC	cum	220	6500	1,430,000	220	5,500	1,210,000	101.751	5,500	559,631	220,000
03-16c	Class B reinforced concrete in following				-			0				-
a	Foundation	cum	335	12375	4,145,625	335	9,992	3,347,320	306.298	9,992	3,060,530	798,305
b	Plinth beam	cum	145	14000	2,030,000	145	10,345	1,500,025	111.097	10,345	1,149,298	529,975
c	Column upto plinth	cum	90	14250	1,282,500	90	10,946	985,140	32.504	10,946	355,789	297,360
03-17c	Class B reonforced concrete using OPC	cum	112	14500	1,624,000	112	10,946	1,225,952	35.838	10,946	392,283	398,048
03-18c	Precast fairfaced Class B reonforced concrete	cum	50	15000	750,000	50	12,710	635,500	-	12,710	-	114,500
03-19c	100 micron thick polyethelene sheet	Sqm	560	165	92,400	560	10	5,600	-	10	-	86,800
03-20c	Class B fairfaced concrete using OPC	RM	1,138	5200	5,917,600	1,138	15,120	17,206,560	152.300	15,120	2,302,776	(11,288,960)
03-21c	Precast concrete paving tiles of 300x300x40 mm with 50 mm thick sand cushion	Sqm	4,466	2400	10,718,400	4,466	1,200	5,359,200	-	1,200	-	5,359,200

BRTS ABDUL SATTAR EDHI LINE (FORMERLY BRTS ORANGE LINE)
PACKAGE - 1 : M/S MS ENGINEERING SERVICES
COMPARATIVE STATEMENT

Code No	Description	Engineer's Estimate				Bill of Quantities (BOQ)			Current Work Done Status			
		Unit	Quantity	Rate	Amount (Rs) [A]	Quantity	Rate	Amount (Rs) [B]	Quantity	Rate	Amount (Rs.) [C]	Difference [A-B]
03-22c	Precast class B fairfaced kerb stone of (150 x 300 x 300 mm) with 1:4 cement sand mortar with 20 mm cemnent sand	RM	4,136	1250	5,170,000	4,136	1,100	4,549,600	3,313.000	1,100	3,644,300	620,400
03-23c	Precast Class B edge stone of 150x300x300 mm	RM	2,525	1350	3,408,750	2,525	1,100	2,777,500	-	1,100	-	631,250
03-24c	Providing and laynig traffic lane marking i/c arrows	Sqm	1,960	1050	2,058,000	1,960	1,250	2,450,000	589.000	1,250	736,250	(392,000)
03-25c	Providing and fixing reflectorized road pavement studs (light duty) Type-W	No	631	550	347,050	631	600	378,600	620.000	600	372,000	(31,550)
	Type-Y	No	728	550	400,400	728	650	473,200	310.000	650	201,500	(72,800)
03-26c	Providing and fixing two way reflectorized road pavement studs (heavy duty)	No	609	750	456,750	609	1,200	730,800	-	1,200	-	(274,050)
03-27c	Traffic sign boards (permenant) of following				-			0				-
a	Rectangular	No	22	24500	539,000	22	30,000	660,000	20.000	30,000	600,000	(121,000)
b	Diagonal	No	20	19500	390,000	20	25,000	500,000	18.000	25,000	450,000	(110,000)
c	Circular	No	22	20500	451,000	22	25,000	550,000	20.000	25,000	500,000	(99,000)
03-28c	Providing/Fabrication of Gantry sign	No	1	1000000	1,000,000	1	2,500,000	2,500,000	1.000	2,500,000	2,500,000	(1,500,000)
03-29c	Mild steel grill as per design	Kg	18,550	260	4,823,000	18,550	160	2,968,000	35,197.500	160	5,631,600	1,855,000
	Total (A)				**136,117,615**			**110,314,847**			**56,549,076**	**25,802,768**
	Road [Electrical Work]											
03-1e	Following LED street/flood light											
a	Type ST 1 street light 90 watts	No	38	65000	2,470,000	38	53,000	2,014,000	38.000	53,000	2,014,000	456,000
b	Type ST 2 street light 200 watts	No	38	111250	4,227,500	38	69,300	2,633,400	38.000	69,300	2,633,400	1,594,100
03-2e	Single core / multicore PVC insulated and PVC sheathed armour copper conductor (4 core) 25 sq mm	RM	2,530	1410	3,567,300	2,530	1,100	2,783,000	1,180.310	1,100	1,298,341	784,300

BRTS ABDUL SATTAR EDHI LINE (FORMERLY BRTS ORANGE LINE)
PACKAGE - 1 : M/S MS ENGINEERING SERVICES
COMPARATIVE STATEMENT

Code No	Description	Engineer's Estimate				Bill of Quantities (BOQ)			Current Work Done Status			
		Unit	Quantity	Rate	Amount (Rs) [A]	Quantity	Rate	Amount (Rs) [B]	Quantity	Rate	Amount (Rs.) [C]	Difference [A-B]
03-3e	Wiring of 10 meter high single / two arm street light columns	No	76	5000	380,000	76	2,000	152,000	38.000	2,000	76,000	228,000
03-4e	Following size internal dia underground uPVC Class D pipes				-			0				-
a	100 mm dia	RM	100	1610	161,000	100	950	95,000	1,524.900	950	1,448,655	66,000
b	50 mm dia	RM	3,875	410	1,588,750	3,875	470	1,821,250	317.300	470	149,131	(232,500)
03-5e	100 mm dia of underground Class D pipes	RM	2,320	1610	3,735,200	2,320	950	2,204,000	1,962.000	950	1,863,900	1,531,200
03-6e	Single core PVC insulated copper (16 sq mm)	RM	2,530	300	759,000	2,530	243	614,790	22.750	243	5,528	144,210
03-7e	19 mm dia 3 meter long copper cladded steel	No	12	25000	300,000	12	50,000	600,000	10.010	50,000	500,500	(300,000)
03-8e	Hot dipped galvanized 10 meter column (2 arm)	No	38	100000	3,800,000	38	98,000	3,724,000	-	98,000	-	76,000
03-9e	Pull box of appro size for cables	No	40	10000	400,000	40	1,000	40,000	36.100	1,000	36,100	360,000
03-10e	RCC handhole of 600x600x600 mm	Job	20	28471	569,420	20	5,000	100,000	20.000	5,000	100,000	469,420
	Total (B)				**21,958,170**			**16,781,440**			**10,125,555**	**5,176,730**
	Grand Total (A+B) of Road Work				**158,075,785**			**127,096,287**			**66,674,632**	**30,979,498**
4	**BUS STATIONS (02 No)**											
	Civil Works											
04-1c	Excavation of all kinds of sub surface											
a	0-2 meter depth	cum	1,652	630	1,040,760	1,652	225	371,700	2,230.160	225	501,786	669,060
b	2-4 meter depth	cum	330	830	273,900	330	260	85,800	406.936	260	105,803	188,100
04-2c	Fill and backfill with selected materials				-			0				-
a	Obtained from required excavation	cum	1,415	200	283,000	1,415	530	749,950	59.149	530	31,349	(466,950)
b	Obtained from outside source	cum	300	1200	360,000	300	280	84,000	-	280	-	276,000
04-3c	Sweet earthfill material outside source	cum	15	1300	19,500	15	310	4,650	-	310	-	14,850

BRTS ABDUL SATTAR EDHI LINE (FORMERLY BRTS ORANGE LINE)
PACKAGE - 1 : M/S MS ENGINEERING SERVICES
COMPARATIVE STATEMENT

Code No	Description	Engineer's Estimate				Bill of Quantities (BOQ)			Current Work Done Status			
		Unit	Quantity	Rate	Amount (Rs) [A]	Quantity	Rate	Amount (Rs) [B]	Quantity	Rate	Amount (Rs.) [C]	Difference [A-B]
04-4c	150 mm thick compacted stone soling	Sqm	632	550	347,600	632	970	613,040	-	970	-	(265,440)
04-5c	100 mm thick compacted stone soling	Sqm	84	450	37,800	84	970	81,480	-	970	-	(43,680)
04-6c	Termite control treatment to surfaces	Sqm	632	140	88,480	632	120	75,840	49.797	120	5,976	12,640
04-7c	Class E plain cement concrete using OPC	cum	118	6500	767,000	118	5,500	649,000	130.868	5,500	719,774	118,000
04-8c	Class E plain reduced aggregate cement	cum	1	6500	6,500	1	5,800	5,800	-	5,800	-	700
04-9c	Class D plain cement concrete using OPC	cum	40	8500	340,000	40	8,474	338,960	77.236	8,474	654,498	1,040
04-10c	Class D plain cement concrete using OPC	cum	9	9500	85,500	9	8,474	76,266	-	8,474	-	9,234
04-11c	Class B reinforced concrete in following				-			0				-
a	Foundation	cum	376	12375	4,653,000	376	9,992	3,756,992	516.261	9,992	5,158,480	896,008
b	Column upto plinth	cum	50	14250	712,500	50	9,992	499,600	51.402	9,992	513,609	212,900
c	Plinth beam	cum	71	14000	994,000	71	10,240	727,040	57.887	10,240	592,763	266,960
d	Walls	cum	30	14500	435,000	30	11,475	344,250	164.595	11,475	1,888,728	90,750
04-12c	Class B reinforced concrete in following				-			0				-
a	Columns	cum	141	14500	2,044,500	141	12,500	1,762,500	41.566	12,500	519,575	282,000
b	Beams	cum	26	15300	397,800	26	12,500	325,000	20.303	12,500	253,788	72,800
c	Slab and projections	cum	69	14500	1,000,500	69	13,240	913,560	28.268	13,240	374,268	86,940
d	Walls	cum	111	14800	1,642,800	111	13,600	1,509,600	109.623	13,600	1,490,873	133,200
e	staircase	cum	25	17500	437,500	25	13,600	340,000	-	13,600	-	97,500
f	Purdi	cum	112	16000	1,792,000	112	13,600	1,523,200	0.481	13,600	6,542	268,800
g	Precast planks	cum	115	15500	1,782,500	115	13,600	1,564,000	-	13,600	-	218,500
h	Precast ribs	cum	34	15500	527,000	34	13,600	462,400	-	13,600	-	64,600
i	Roof screed	cum	55	8500	467,500	55	12,500	687,500	-	12,500	-	(220,000)
04-13c	Class A underground water tank concrete				-			0				-
a	Base slab	cum	2	16500	33,000	2	12,000	24,000	-	12,000	-	9,000
b	Walls	cum	3	17500	52,500	3	13,400	40,200	-	13,400	-	12,300
c	Top slab	cum	2	15500	31,000	2	13,400	26,800	-	13,400	-	4,200
04-14c	Precast fairfaced Class B reonforced concrete	cum	2	15000	30,000	2	15,000	30,000	-	15,000	-	-

BRTS ABDUL SATTAR EDHI LINE (FORMERLY BRTS ORANGE LINE)
PACKAGE - 1 : M/S MS ENGINEERING SERVICES
COMPARATIVE STATEMENT

Code No	Description	Engineer's Estimate				Bill of Quantities (BOQ)			Current Work Done Status			
		Unit	Quantity	Rate	Amount (Rs) [A]	Quantity	Rate	Amount (Rs) [B]	Quantity	Rate	Amount (Rs.) [C]	Difference [A-B]
04-15c	Hot rolled worked billet steel bars A-706	tonne	97	120650	11,703,050	97	108,000	10,476,000	105.632	108,000	11,408,256	1,227,050
04-16c	Structural steel for columnn/trusses	tonne	36	300000	10,800,000	36	345,000	12,420,000	145.000	345,000	50,025,000	(1,620,000)
04-17c	Mild steel grill louvered door as per design	Kg	825	260	214,500	825	320	264,000	-	320	-	(49,500)
04-18c	Structural steel work with MS chequered plate	Kg	962	300	288,600	962	350	336,700	22,210.000	350	7,773,500	(48,100)
04-19c	Stainless steel pipe handrailing	RM	30	10500	315,000	30	6,700	201,000	-	6,700	-	114,000
04-20c	Insulated roof panel (Zamil / Mammet)	Sqm	950	4500	4,275,000	950	9,292	8,827,400	1,103.000	9,292	10,249,076	(4,552,400)
04-21c	Hollow masonry 150 mm thick 1:6 mortor	cum	218	9500	2,071,000	218	5,500	1,199,000	-	5,500	-	872,000
04-22c	Solid masonry 100 mm thick 1:6 mortor	cum	22	10500	231,000	22	5,755	126,610	-	5,755	-	104,390
04-23c	12 mm thick 1:4 plaster	Sqm	2,180	575	1,253,500	2,180	550	1,199,000	-	550	-	54,500
04-24c	20 mm thick 1:4 plaster	Sqm	940	650	611,000	940	650	611,000	-	650	-	-
04-25c	Wooden doors of Type D1	Sqm	6	17000	102,000	6	13,150	78,900	-	13,150	-	23,100
04-26c	Anodized alumunium glazed door/ventilator				-			0				-
a	Type D-1	Sqm	24	12500	300,000	24	17,345	416,280	-	17,345	-	(116,280)
b	Type D-2	Sqm	22	12500	275,000	22	17,345	381,590	-	17,345	-	(106,590)
c	Windows Type W-1	Sqm	1	12500	12,500	1	15,500	15,500	-	15,500	-	(3,000)
d	Ventilator Type V-1	Sqm	1	12500	12,500	1	15,500	15,500	-	15,500	-	(3,000)
04-27c	Anodized alumunium automated sliding door	Sqm	110	16500	1,815,000	110	17,250	1,897,500	105.600	17,250	1,821,600	(82,500)
04-28c	Anodized aluminium fix partition W-1	Sqm	110	16500	1,815,000	110	17,000	1,870,000	-	17,000	-	(55,000)
04-29c	100 mm thick class D cement concrete sub floor	Sqm	632	925	584,600	632	620	391,840	-	620	-	192,760
04-30c	75 mm thick class C concrete floor	Sqm	106	850	90,100	106	620	65,720	-	620	-	24,380
04-31c	Porcelain tiles 600 x 600 mm	Sqm	732	3200	2,342,400	732	6,000	4,392,000	1,181.405	6,000	7,088,430	(2,049,600)
04-32c	Porcelain tiles skirting 100 mm high	Sqm	22	3200	70,400	22	6,000	132,000	-	6,000	-	(61,600)
04-33c	Cement concrete skirting 100 high	Sqm	12	800	9,600	12	2,000	24,000	-	2,000	-	(14,400)

BRTS ABDUL SATTAR EDHI LINE (FORMERLY BRTS ORANGE LINE)
PACKAGE - 1 : M/S MS ENGINEERING SERVICES
COMPARATIVE STATEMENT

Code No	Description	Engineer's Estimate				Bill of Quantities (BOQ)			Current Work Done Status			
		Unit	Quantity	Rate	Amount (Rs) [A]	Quantity	Rate	Amount (Rs) [B]	Quantity	Rate	Amount (Rs.) [C]	Difference [A-B]
04-34c	Cement concrete skirting 200 high	Sqm	2	800	1,600	2	2,000	4,000	-	2,000	-	(2,400)
04-35c	Porcelain tile floor 300x300 mm	Sqm	35	3200	112,000	35	6,000	210,000	-	6,000	-	(98,000)
04-36c	Porcelain tile dado	Sqm	190	3400	646,000	190	6,000	1,140,000	-	6,000	-	(494,000)
04-37c	Vanity tops using 20 mm thick granite	Sqm	2	20245	40,490	2	9,800	19,600	-	9,800	-	20,890
04-38c	Porcelain tile cladding	Sqm	2,550	3200	8,160,000	2,550	6,500	16,575,000	-	6,500	-	(8,415,000)
04-39c	20 mm thick granite on tread	Sqm	130	14850	1,930,500	130	10,500	1,365,000	-	10,500	-	565,500
04-40c	20 mm thick granite slab on riser	Sqm	60	12500	750,000	60	10,500	630,000	-	10,500	-	120,000
04-41c	Granite skirting 100 mm high	Sqm	20	10500	210,000	20	10,500	210,000	-	10,500	-	-
04-42c	PVC tile cladding	Sqm	5	2500	12,500	5	8,500	42,500	-	8,500	-	(30,000)
04-43c	Two coats of hot bitumen grade 10/20 applied	Sqm	2,520	520	1,310,400	2,520	45	113,400	170.071	45	7,653	1,197,000
04-44c	Water proffing & build up roofing over slabs	Sqm	332	4500	1,494,000	332	1,500	498,000	-	1,500	-	996,000
04-45c	Crystallin waterproof slurry (Aquafin)	Sqm	35	1200	42,000	35	800	28,000	-	800	-	14,000
04-46c	25 mm thick polysterene sheet	Sqm	28	985	27,580	28	380	10,640	-	380	-	16,940
04-47c	Two layers of self adhesive membrane Hygrip	Sqm	35	2425	84,875	35	225	7,875	-	225	-	77,000
04-48c	False ceiling comprising 100 mm wide perforated matellic strip	Sqm	950	4450	4,227,500	950	600	570,000	544.800	600	326,880	3,657,500
04-49c	Plastic emulsion paint of approved make	Sqm	2,735	500	1,367,500	2,735	320	875,200	-	320	-	492,300
04-50c	Weather resistant paint of approved make	Sqm	879	400	351,600	879	360	316,440	-	360	-	35,160
04-51c	Insulated polycarbonate multi wall sheeting	Sqm	65	4500	292,500	65	6,800	442,000	-	6,800	-	(149,500)
04-52c	Counter sign nickle complete	Sqm	1	250000	250,000	1	150,000	150,000	5.400	150,000	810,000	100,000
04-53c	Ticket counter comprising 800 mm wide 19 mm thick	RM	6	50000	300,000	6	120,000	720,000	2.700	120,000	324,000	(420,000)
	Total A				81,485,935			86,942,323			102,652,205	(5,456,388)
	Plumbing Works											

BRTS ABDUL SATTAR EDHI LINE (FORMERLY BRTS ORANGE LINE)
PACKAGE - 1 : M/S MS ENGINEERING SERVICES
COMPARATIVE STATEMENT

Code No	Description	Engineer's Estimate				Bill of Quantities (BOQ)			Current Work Done Status			
		Unit	Quantity	Rate	Amount (Rs) [A]	Quantity	Rate	Amount (Rs) [B]	Quantity	Rate	Amount (Rs.) [C]	Difference [A-B]
04-1p	PPR cold and hot water pipes											-
a	15 mm	RM	12	200	2,400	12	210	2,520		210	-	(120)
b	25 mm	RM	10	230	2,300	10	425	4,250		425	-	(1,950)
04-2p	Bronze gate valves				-			0				-
a	25 mm	No	4	4000	16,000	4	4,500	18,000		4,500	-	(2,000)
b	50 mm	No	4	11000	44,000	4	6,500	26,000		6,500	-	18,000
04-3p	C.P brass bib tap (15 mm)	No	4	1000	4,000	4	500	2,000		500	-	2,000
04-4p	Stop cock brass chromium plated (15 mm)	No	8	1200	9,600	8	650	5,200		650	-	4,400
04-5p	Europeon water closet i/c all facilities	No	4	16500	66,000	4	16,500	66,000		16,500	-	-
04-6p	Pedestal type wash basin	No	4	10000	40,000	4	10,500	42,000		10,500	-	(2,000)
04-7p	Imported glass mirror of Belgium	Sqm	4	400	1,600	4	4,900	19,600		4,900	-	(18,000)
04-8p	Towel rail	No	4	2000	8,000	4	2,000	8,000		2,000	-	-
04-9p	Soap tray	No	4	1850	7,400	4	600	2,400		600	-	5,000
04-10p	uPVC soil waste vent pipes				-			0				-
a	100 mm	RM	20	450	9,000	20	1,800	36,000		1,800	-	(27,000)
b	75 mm	RM	24	840	20,160	24	1,200	28,800		1,200	-	(8,640)
c	32 mm	RM	16	1310	20,960	16	900	14,400		900	-	6,560
04-11p	uPVC floor drain (75 mm)	No	4	1500	6,000	4	7,500	30,000		7,500	-	(24,000)
04-12p	uPVC floor trap (75 mm)	No	4	1500	6,000	4	7,500	30,000		7,500	-	(24,000)
04-13p	uPVC floor cleanout (75 mm)	No	4	1800	7,200	4	10,000	40,000		10,000	-	(32,800)
04-14p	Water level indicator	No	2	15000	30,000	2	15,000	30,000		15,000	-	-
04-15p	Cast iron cover with frame (600x600 mm)	No	2	20500	41,000	2	25,000	50,000		25,000	-	(9,000)
04-16p	Galvanized MS ladder rungs for OHT	No	12	650	7,800	12	2,500	30,000		2,500	-	(22,200)
04-17p	GI U turn vent pipe (100 mm)	No	2	5000	10,000	2	10,000	20,000		10,000	-	(10,000)
04-18p	PE overflow pipe (12.5 bar pressure) (50 mm)	RM	2	270	540	2	8,000	16,000		8,000	-	(15,460)
04-19p	Horizantal centrifugal pump (Q=50 US)	No	2	120000	240,000	2	225,000	450,000		225,000	-	(210,000)
04-20p	Seamless black steel pipe (50 mm)	RM	14	2500	35,000	14	2,000	28,000		2,000	-	7,000
04-21p	Float valve (50 mm)	No	2	15000	30,000	2	2,000	4,000		2,000	-	26,000

BRTS ABDUL SATTAR EDHI LINE (FORMERLY BRTS ORANGE LINE)
PACKAGE - 1 : M/S MS ENGINEERING SERVICES
COMPARATIVE STATEMENT

Code No	Description	Engineer's Estimate				Bill of Quantities (BOQ)			Current Work Done Status			
		Unit	Quantity	Rate	Amount (Rs) [A]	Quantity	Rate	Amount (Rs) [B]	Quantity	Rate	Amount (Rs.) [C]	Difference [A-B]
04-22p	Fiber glass water tank (300 gallons)	No	4	18000	72,000	4	20,000	80,000		20,000	-	(8,000)
04-23p	PE pipe (12.5 bars pressure)				-			0				-
a	25 mm	RM	28	90	2,520	28	1,500	42,000		1,500	-	(39,480)
b	50 mm	RM	4	270	1,080	4	2,850	11,400		2,850	-	(10,320)
04-24p	uPVC drainage pipe (150 mm)	RM	28	1850	51,800	28	350	9,800		350	-	42,000
04-25p	Gully trap in chamber (300 x 300 mm)	No	4	5500	22,000	4	8,500	34,000		8,500	-	(12,000)
04-26p	PE pipe (12.5 bars pressure)				-			0				-
a	25 mm	RM	170	90	15,300	170	1,500	255,000		1,500	-	(239,700)
b	50 mm	RM	36	270	9,720	36	2,850	102,600		2,850	-	(92,880)
04-27p	Bronze gate valves (50 mm)	No	2	11000	22,000	2	6,500	13,000		6,500	-	9,000
04-28p	Black steel pipe i/c fittings				-			0				-
a	25 mm	RM	60	1250	75,000	60	1,200	72,000		1,200	-	3,000
b	50 mm	RM	20	2500	50,000	20	2,220	44,400		2,220	-	5,600
	Total B				**986,380**			**1,667,370**			-	**(680,990)**
	Electrical Works											
04-1e	80 kVA 415 volt Prime power rating LV DG set	Job	2	3663750	7,327,500	2	2,100,000	4,200,000	2.000	2,100,000	4,200,000	3,127,500
04-2e	Automatic transfer switch (150 A-4 pole)	Job	2	269100	538,200	2	163,000	326,000	2.000	163,000	326,000	212,200
04-3e	Spare parts for DG set	Lot	2	242190	484,380	2	100,000	200,000	2.000	100,000	200,000	284,380
04-4e	Following LT switch boards				-			0				-
a	LT-BS1 i/c PF1	Job	1	630525	630,525	1	750,000	750,000	1.000	750,000	750,000	(119,475)
b	LT-BS2 i/c PF1	Job	1	630525	630,525	1	700,000	700,000	1.000	700,000	700,000	(69,475)
c	ELT-BS-1 i/c PF1	Job	1	323625	323,625	1	315,000	315,000	1.000	315,000	315,000	8,625
d	ELT-BS-2 i/c PF1	Job	1	323625	323,625	1	315,000	315,000	1.000	315,000	315,000	8,625
04-5e	Following LT Distributor boards/sub main distri				-			0				-
a	LDB-BS1	Job	1	195000	195,000	1	60,000	60,000	0.900	60,000	54,000	135,000
b	LDB-BS2	Job	1	195000	195,000	1	90,000	90,000	0.900	90,000	81,000	105,000
c	PDB-BS1	Job	1	200000	200,000	1	185,000	185,000	0.900	185,000	166,500	15,000
d	PDB-BS2	Job	1	200000	200,000	1	163,000	163,000	0.900	163,000	146,700	37,000
e	UDB-1	Job	1	32750	32,750	1	165,000	165,000	0.900	165,000	148,500	(132,250)
f	UDB-2	Job	1	32750	32,750	1	145,000	145,000	0.900	145,000	130,500	(112,250)
04-6e	Following LT outdoor distribution boards				-			0				-

BRTS ABDUL SATTAR EDHI LINE (FORMERLY BRTS ORANGE LINE)
PACKAGE - 1 : M/S MS ENGINEERING SERVICES
COMPARATIVE STATEMENT

Code No	Description	Engineer's Estimate				Bill of Quantities (BOQ)			Current Work Done Status			
		Unit	Quantity	Rate	Amount (Rs) [A]	Quantity	Rate	Amount (Rs) [B]	Quantity	Rate	Amount (Rs.) [C]	Difference [A-B]
a	LTOD-1	Job	1	350000	350,000	1	76,000	76,000	0.900	76,000	68,400	274,000
b	LTOD-2	Job	1	210000	210,000	1	65,000	65,000	0.900	65,000	58,500	145,000
04-7e	Following MCC (single line diagram) i/c all				-			0				-
a	MCC-PW1	Job	1	281200	281,200	1	300,000	300,000	0.900	300,000	270,000	(18,800)
b	MCC-PW2	Job	1	281200	281,200	1	300,000	300,000	0.900	300,000	270,000	(18,800)
04-8e	Following LED or compact fluorescent high intensity discharge light fixture				-			0				-
a	Type A2 (surface wall mounted 1200 mm)	No	76	9750	741,000	76	5,500	418,000	70.000	5,500	385,000	323,000
b	Type A4 (surface wall mounted 600 mm)	No	12	8250	99,000	12	5,100	61,200	10.000	5,100	51,000	37,800
c	Type D1 (surface mounted downlighter)	No	40	5500	220,000	40	12,750	510,000	30.000	12,750	382,500	(290,000)
d	Type-EX (single face wall surface mounted)	No	32	11625	372,000	32	5,000	160,000	28.000	5,000	140,000	212,000
e	Type-A5 (suspended type 1200 mm)	No	60	15000	900,000	60	11,875	712,500	56.000	11,875	665,000	187,500
04-9e	Following size of single core/multi core PVC insulated and PVC sheathed)				-			0				-
a	1 core, 16 sq.mm PVC/PVC	RM	3,000	390	1,170,000	3,000	300	900,000	2,500.000	300	750,000	270,000
b	4 core, 10 sq.mm PVC/PVC	RM	400	925	370,000	400	935	374,000	350.000	935	327,250	(4,000)
c	4 core, 25 sq.mm PVC/PVC	RM	100	1410	141,000	100	1,100	110,000	80.000	1,100	88,000	31,000
d	4 core, 35 sq.mm PVC/PVC	RM	100	1930	193,000	100	1,600	160,000	80.000	1,600	128,000	33,000
04-10e	Wiring of light circuit from DB to points	No	18	6500	117,000	18	4,500	81,000	15.000	4,500	67,500	36,000
04-11e	Wiring from light/exhaust fan point	No	70	4000	280,000	70	3,000	210,000	65.000	3,000	195,000	70,000
04-12e	Same as above 04-11e but wiring point to point	No	90	3000	270,000	90	2,500	225,000	85.000	2,500	212,500	45,000
04-13e	Wiring of DB to contactor controlled	No	12	6500	78,000	12	4,500	54,000	10.000	4,500	45,000	24,000
04-14e	Wiring from light point to point	No	68	4000	272,000	68	3,700	251,600	65.000	3,700	240,500	20,400
04-15e	Wiring from DB to impulse relay	No	14	6500	91,000	14	5,500	77,000	12.000	5,500	66,000	14,000

BRTS ABDUL SATTAR EDHI LINE (FORMERLY BRTS ORANGE LINE)
PACKAGE - 1 : M/S MS ENGINEERING SERVICES
COMPARATIVE STATEMENT

Code No	Description	Engineer's Estimate				Bill of Quantities (BOQ)			Current Work Done Status			
		Unit	Quantity	Rate	Amount (Rs) [A]	Quantity	Rate	Amount (Rs) [B]	Quantity	Rate	Amount (Rs.) [C]	Difference [A-B]
04-16e	Wiring from light point to point (impulse relay)	No	34	4000	136,000	34	3,500	119,000	30.000	3,500	105,000	17,000
04-17e	Wiring of 16A schuko/15A 3 pin/13A socket				-			0				-
a	From DB to outlet 3(1x2.5 sqmm) cable	No	28	6000	168,000	28	4,500	126,000	25.000	4,500	112,500	42,000
b	From outlet to outlet 3(1x2.5 sqmm)	No	58	3500	203,000	58	3,700	214,600	55.000	3,700	203,500	(11,600)
04-18e	Wiring of 16A schuko/15A 3 pin/13A socket				-			0				-
a	From DB to outlet	No	2	6000	12,000	2	5,500	11,000	1.000	5,500	5,500	1,000
b	From outlet to outlet 3(1x2.5 sqmm)	No	14	3500	49,000	14	4,000	56,000	12.000	4,000	48,000	(7,000)
04-19e	Wiring from DB to 20 A spur outlet	No	4	8000	32,000	4	6,500	26,000	3.000	6,500	19,500	6,000
04-20e	Wiring from DB to 16 A SP&N+E 250 volts	No	22	8000	176,000	22	6,500	143,000	20.000	6,500	130,000	33,000
04-21e	Wiring from DB to 25 A SP&N+E 250 volts	No	4	12000	48,000	4	7,000	28,000	3.000	7,000	21,000	20,000
04-22e	Wiring of 32 A 250 volts, 1 phase, 3 pin	No	4	12000	48,000	4	7,500	30,000	3.000	7,500	22,500	18,000
04-23e	16 A, 250 volts 2 pin + earth schuko socket	No	74	1000	74,000	74	1,500	111,000	70.000	1,500	105,000	(37,000)
04-24e	13 Amps, 250 volts, spur outlet with sheet	No	28	1500	42,000	28	1,500	42,000	25.000	1,500	37,500	-
04-25e	20 Amps, 250 volts, spur outlet with sheet	No	4	2000	8,000	4	2,000	8,000	3.000	2,000	6,000	-
04-26e	32 Amps, 250 volts, 3 pin industrial type socket	No	4	3000	12,000	4	2,700	10,800	3.000	2,700	8,100	1,200
04-27e	Following size (internal dia) of underground uPVC class D pipes				-			0				-
a	150 mm dia	RM	200	2400	480,000	200	1,800	360,000	-	1,800	-	120,000
b	100 mm dia	RM	400	1610	644,000	400	950	380,000	350.000	950	332,500	264,000
c	50 mm dia	RM	1,400	410	574,000	1,400	328	459,200	157.100	328	51,529	114,800
04-28e	Following size of single core PVC insulated copper conductor cables				-			0				-

BRTS ABDUL SATTAR EDHI LINE (FORMERLY BRTS ORANGE LINE)
PACKAGE - 1 : M/S MS ENGINEERING SERVICES
COMPARATIVE STATEMENT

Code No	Description	Engineer's Estimate				Bill of Quantities (BOQ)			Current Work Done Status			
		Unit	Quantity	Rate	Amount (Rs) [A]	Quantity	Rate	Amount (Rs) [B]	Quantity	Rate	Amount (Rs.) [C]	Difference [A-B]
a	10 sq mm	RM	1,400	200	280,000	1,400	135	189,000	1,200.000	135	162,000	91,000
b	16 sq mm	RM	200	300	60,000	200	243	48,600	150.000	243	36,450	11,400
c	70 sq mm	RM	100	1260	126,000	100	700	70,000	80.000	700	56,000	56,000
04-29e	600 x 600 mm x 3 mm tin plated copper plate	No	8	40000	320,000	8	80,000	640,000	6.000	80,000	480,000	(320,000)
04-30e	Earth connecting point i/c all accessories	No	4	5000	20,000	4	4,000	16,000	3.000	4,000	12,000	4,000
04-31e	Following type perforated GI sheet cable tray				-			0				-
a	100 x 50 mm	RM	50	1020	51,000	50	1,400	70,000	45.000	1,400	63,000	(19,000)
b	150 x 50 mm	RM	50	1250	62,500	50	1,800	90,000	45.000	1,800	81,000	(27,500)
04-32e	14" sweep single phase 250 V wall bracket fan	No	8	4000	32,000	8	3,600	28,800	6.000	3,600	21,600	3,200
04-33e	56" sweep single phase 250 V ceiling fans	No	32	5500	176,000	32	4,500	144,000	28.000	4,500	126,000	32,000
04-34e	8" dia single phase 250 V exhaust fans	No	8	4500	36,000	8	4,500	36,000	6.000	4,500	27,000	-
04-35e	Rating online type (UPS) 5 kVA	No	2	55000	110,000	2	325,000	650,000	1.600	325,000	520,000	(540,000)
04-36e	Following rating SP&N/TP&N load break switch				-			0				-
a	16 Amps, SP&N+E	No	22	5500	121,000	22	6,500	143,000	20.000	6,500	130,000	(22,000)
b	25 Amps SP&N+E	No	4	5500	22,000	4	7,500	30,000	3.000	7,500	22,500	(8,000)
c	63 Amps TP&N+E	No	12	11000	132,000	12	8,201	98,412	10.000	8,201	82,010	33,588
d	Type MH-A 1000 (L)x100 (W)x1500 mm (H)CI cover	No	2	84800	169,600	2	35,000	70,000	2.000	35,000	70,000	99,600
04-37e	25 mm dia PVC conduit installed concealed	RM	750	94	70,500	750	66	49,500	216.200	66	14,269	21,000
04-38e	25 mm dia GI conduit installed on surface	RM	1,870	339	633,930	1,870	516	964,920	1,500.000	516	774,000	(330,990)
04-39e	Plastic white colour plate with sheet steel back	No	66	369	24,354	66	415	27,390	60.000	415	24,900	(3,036)
	Total C				**22,703,164**			**18,149,522**			**15,854,208**	**4,553,642**
	Mechanical Works											
04-1m	Supply commissioning testing (L1, L2, L4, L5)	No	4	6600000	26,400,000	4	6,000,000	24,000,000	4.000	6,000,000	22,800,000	2,400,000

BRTS ABDUL SATTAR EDHI LINE (FORMERLY BRTS ORANGE LINE)
PACKAGE - 1 : M/S MS ENGINEERING SERVICES
COMPARATIVE STATEMENT

Code No	Description	Engineer's Estimate				Bill of Quantities (BOQ)			Current Work Done Status			
		Unit	Quantity	Rate	Amount (Rs) [A]	Quantity	Rate	Amount (Rs) [B]	Quantity	Rate	Amount (Rs.) [C]	Difference [A-B]
04-2m	Supply commissioning testing (L3)	No	1	6600000	6,600,000	1	5,900,000	5,900,000	1.000	5,900,000	5,605,000	700,000
04-3m	Supply commissioning testing (L6)	No	1	6600000	6,600,000	1	5,900,000	5,900,000	1.000	5,900,000	5,605,000	700,000
04-4m	Supply commissioning testing (E1, E2, E4, E5)	No	4	17600000	70,400,000	4	13,000,000	52,000,000	4.000	13,000,000	49,400,000	18,400,000
04-5m	Supply commissioning testing (E3)	No	1	17600000	17,600,000	1	12,700,000	12,700,000	1.000	12,700,000	12,065,000	4,900,000
04-5m	Supply commissioning testing (E6)	No	1	17600000	17,600,000	1	12,800,000	12,800,000	1.000	12,800,000	12,160,000	4,800,000
	Total D				**145,200,000**			**113,300,000**			**107,635,000**	**31,900,000**
	Grand Total (A+B+C+D) of Bus Station (2 No.)				**250,375,479**			**220,059,215**			**161,921,734**	**30,316,264**
5	**Pedestrian Walkway on Nallah Bridge**											
05-1c	Excavation of all kinds of sub surface	cum	250	630	157,500	250	210	52,500	-	210	-	105,000
05-2c	Fill and backfill with selected materials	cum	135	200	27,000	135	530	71,550	-	530	-	(44,550)
05-3c	Static load test on test pile 540 tonnes	No	1	1350000	1,350,000	1	1,000,000	1,000,000	-	1,000,000	-	350,000
05-4c	Static load test on selected working pile 170 tonne	No	2	425000	850,000	2	800,000	1,600,000	-	800,000	-	(750,000)
05-5c	Low strain impact integrity test of pile	No	9	5250	47,250	9	10,000	90,000	5.000	10,000	50,000	(42,750)
05-6c	Drilling for boreholes of pile 760 mm dia				-			0				-
a	0-20 meter	RM	295	5800	1,711,000	295	5,500	1,622,500	111.328	5,500	612,304	88,500
b	more than 20 upto 35 meter	RM	80	6800	544,000	80	6,000	480,000	-	6,000	-	64,000
05-7c	Class E dummy concrete using OPC	cum	5	6500	32,500	5	5,500	27,500	-	5,500	-	5,000
05-8c	Class B reinforced conceret 760 mm dia	RM	295	8750	2,581,250	295	7,750	2,286,250	127.270	7,750	986,343	295,000
05-9c	Class E concrete using OPC	cum	2	6500	13,000	2	5,500	11,000	-	5,500	-	2,000
05-10c	Class D concrete using OPC	cum	2	8500	17,000	2	8,475	16,950	-	8,475	-	50
05-11c	Class A fairfaced reinforced concrete in transom	cum	6	20450	122,700	6	12,000	72,000	-	12,000	-	50,700
05-12c	Class B reinforced concrete in following				-			0				-

BRTS ABDUL SATTAR EDHI LINE (FORMERLY BRTS ORANGE LINE)
PACKAGE - 1 : M/S MS ENGINEERING SERVICES
COMPARATIVE STATEMENT

Code No	Description	Engineer's Estimate				Bill of Quantities (BOQ)			Current Work Done Status			
		Unit	Quantity	Rate	Amount (Rs) [A]	Quantity	Rate	Amount (Rs) [B]	Quantity	Rate	Amount (Rs.) [C]	Difference [A-B]
a	Abutment	cum	20	17500	350,000	20	9,992	199,840	-	9,992	-	150,160
b	Papapet wall	cum	18	14750	265,500	18	10,345	186,210	-	10,345	-	79,290
05-13c	Hot rolled worked billet steel bars A-706	tonne	24	120650	2,895,600	24	108,000	2,592,000	11.169	108,000	1,206,252	303,600
05-14c	Stronghold laminated bearing pad (100x100x12)	No	28	35000	980,000	28	660	18,480	-	660	-	961,520
05-15c	Precast prestressed faifaced Class A concrete	Sqm	10	5000	50,000	10	10,200	102,000	-	10,200	-	(52,000)
05-16c	Structural steel i/c fabrication erection etc	tonne	1	185000	185,000	1	345,000	345,000	-	345,000	-	(160,000)
	Total Pedestrian walkway on Nallah				**12,179,300**			**10,773,780**			**2,854,899**	**1,405,520**
6	**Landscaping**											
06-1c	Plantation and development of trees (Conocarpus)	No	1,400	1687	2,361,800	1,400	1,500	2,100,000	-	1,500	-	261,800
	Total Landscaping				**2,361,800**			**2,100,000**				**261,800**
7	**Field Investigation (Geotechnical Investigation)**											
A1	Mobilization and demobilization	Lumsum	1		-	1	50,000	50,000	1.000	50,000	50,000	(50,000)
A2	Drilling boreholes in overburden soil				-			0				-
a	0-15 m	Lumsum	135		-	135	6,000	810,000	135.000	6,000	810,000	(810,000)
b	15-30 m	Lumsum	105		-	105	8,000	840,000	90.000	8,000	720,000	(840,000)
c	30-45 m	Lumsum	75		-	75	10,000	750,000	60.000	10,000	600,000	(750,000)
A3	Performance of standard penetration test	No	225		-	225	2,000	450,000	30.000	2,000	60,000	(450,000)
A4	Collection of rock samples by coring	No	90		-	90	2,500	225,000	-	2,500	-	(225,000)
A5	Excavation of twelve (12) test pits	Lumsum	36		-	36	3,000	108,000	36.000	3,000	108,000	(108,000)
A6	Collection of undisturbed block samples	No	12		-	12	1,200	14,400	12.000	1,200	14,400	(14,400)
A7	Performance of field denisty test	No	24		-	24	1,200	28,800	-	1,200	-	(28,800)
A8	Collection of composite bulk from test pits	No	12		-	12	2,000	24,000	-	2,000	-	(24,000)
A9	Collection of water samples	No	2		-	2	100	200	-	100	-	(200)
A10	Submission of GT report	Job	1		-	1	20,000	20,000	0.200	20,000	4,000	(20,000)

BRTS ABDUL SATTAR EDHI LINE (FORMERLY BRTS ORANGE LINE)
PACKAGE - 1 : M/S MS ENGINEERING SERVICES
COMPARATIVE STATEMENT

Code No	Description	Engineer's Estimate				Bill of Quantities (BOQ)			Current Work Done Status			
		Unit	Quantity	Rate	Amount (Rs) [A]	Quantity	Rate	Amount (Rs) [B]	Quantity	Rate	Amount (Rs.) [C]	Difference [A-B]
	Sub Total of A							**3,320,400**			**2,366,400**	**(3,320,400)**
7	**Lab testing for soil investigation**											
B1	Sieve Analysis	No	60		-	60	600	36,000	31.000	600	18,600	(36,000)
B2	Hydrometer analysis	No	15		-	15	1,200	18,000	-	1,200	-	(18,000)
B3	Liquid plastic limit and shrinking limit	No	25		-	25	1,000	25,000	10.000	1,000	10,000	(25,000)
B4	Triaxle test (Consolidated measurement)	No	8		-	8	5,000	40,000	-	5,000	-	(40,000)
B5	Bulk denisity and dry density	No	20		-	20	300	6,000	-	300	-	(6,000)
B6	Consolidation with Swell potential	No	10		-	10	6,000	60,000	-	6,000	-	(60,000)
B7	Direct shear test	No	15		-	15	1,200	18,000	-	1,200	-	(18,000)
B8	Unconfined compression test	No	25		-	25	1,500	37,500	20.000	1,500	30,000	(37,500)
B9	Modified AASHTO Compaction	No	12		-	12	900	10,800	6.000	900	5,400	(10,800)
B10	3 point soaked CBR	No	12		-	12	2,500	30,000	3.000	2,500	7,500	(30,000)
B11	Chemical test on soil sample (TDS, Ph, SQA)	No	5		-	5	2,000	10,000	3.000	2,000	6,000	(10,000)
B12	Complete chemical of water sample	No	2		-	2	3,500	7,000	2.000	3,500	7,000	(7,000)
	Sub Total of B							**298,300**			**84,500**	**(298,300)**
	Total A + B						**0**	**3,618,700**			**2,450,900**	**(3,618,700)**
	Spare parts of Electrical Items	**Lumsum**				1	200,000	200,000	-	200,000	-	(200,000)
	Total						**200,000**	**200,000**			**0**	**(200,000)**
8	**Additional Road Work and Winching**											
08-1c	Excavation & cutting of all kind of sub surface	sqm				8,810	210	1,850,100	3,592.390	210	754,402	(1,850,100)
08-2c	Subgrade preparation and 95% compaction	sqm				22,026	16	352,416	17,201.700	16	275,227	(352,416)
08-3c	Aggregate sub base coarse 150 mm	cum				3,304	1,200	3,964,800	2,364.475	1,200	2,837,370	(3,964,800)
08-4c	Aggregate base coarse 150 mm	cum				3,304	1,450	4,790,800	4,031.936	1,450	5,846,307	(4,790,800)
08-5c	Providing and laying bitumenous binder coarse	sqm				22,026	680	14,977,680	27,081.880	680	18,415,678	(14,977,680)
	Total							**25,935,796**			**28,128,985**	**(25,935,796)**

BRTS ABDUL SATTAR EDHI LINE (FORMERLY BRTS ORANGE LINE)
PACKAGE - 1 : M/S MS ENGINEERING SERVICES
COMPARATIVE STATEMENT

Code No	Description	Engineer's Estimate				Bill of Quantities (BOQ)			Current Work Done Status			
		Unit	Quantity	Rate	Amount (Rs) [A]	Quantity	Rate	Amount (Rs) [B]	Quantity	Rate	Amount (Rs.) [C]	Difference [A-B]
	Grand Total				**803,121,434**			**681,278,288**			**498,487,190**	**121,843,146**
	Rebate (1.80%)							**-12,263,009**			**-8,972,769**	
	Grand Total (as per Contract Price)				**803,121,434**			**669,015,279**			**489,514,420**	**134,106,155**
9	**Additional Work Winching**											
08-6c	Providing and cleaning 24" dia old seweage pipe	RM				3,500	1,168	4,088,000	602.000	1,168	703,136	
	Total							**4,088,000**			**703,136**	
10	**EXTRA ITEMS AT BANARAS BRIDGE**											
1	Supply, Fixing and connecting of Aluminum Conductor ABC Size 16mm2 2core for overhead Electrical Supply low Existing Lighting Pole.	RM							4,000	226	904,000	-
2	Providing and Fixing of Electric Hardware Components, it consist of G.I "D" iron clamps with Shakle insulator. That iron Clamps and insulators fixed with required nut, bolts & washer complete in all respect.	No							228	1,973	449,844	-
3	Supply and fixing of ABC Connector Size 95/16 Complete with all respect as per site requirement.	No							250	451	112,750	-
4	Supply, Installation, testing and Commissioning of following light Fixture accessories.										-	-
a	a) 250 Watts Ballast	No							38	4,150	157,700	-
b	b) 250 Watts SON – T Lamp	No							39	2,238	87,282	-
c	c) Ignitor SN -58	No							77	1,062	81,774	-

BRTS ABDUL SATTAR EDHI LINE (FORMERLY BRTS ORANGE LINE)
PACKAGE - 1 : M/S MS ENGINEERING SERVICES
COMPARATIVE STATEMENT

Code No	Description	Engineer's Estimate				Bill of Quantities (BOQ)			Current Work Done Status			
		Unit	Quantity	Rate	Amount (Rs) [A]	Quantity	Rate	Amount (Rs) [B]	Quantity	Rate	Amount (Rs.) [C]	Difference [A-B]
5	Supply, Fixing, Testing and Commissioning of Distribution Board along with Locking arrangement fabricated in MS Steel Sheet 16 SWG Powder coated. The Box Should be Installed as per the suitable location with G.I Clamps nuts bolts and Washer etc, that Distribution Box Consist of the following accessories: 1-63 Amps circuit Breaker TP 1-Magnetic Contactor NSC-65. 1-10 Amps photo Cell.	Job							5	77,053	385,265	-
6	Cleaning of Existing Light cover etc.	No							110	65	7,150	-
7	Supply And fixing Connecting of 2 core PVC/PVC/CU Size 7/036.	RM							700	80	56,000	-
	Total							0			**2,241,765**	-
11	**EXTRA ITEM (ELECTRIC LIGHT POLES)**											
1	Supply & Installation of (10 M single arm)	No							18.000	104,805	1,886,490	-
2	Supply & Installation of (10 M double arm) Flyover	No							28.000	107,719	3,016,132	-
3	Supply & Installation of (10 M double arm) at grade roads	No							38.000	122,961	4,672,518	-
	Total										**9,575,140**	-
12	**EXTRA ITEM (CONCRETE PAVER BLOCK)**											
1	Concrete paver (60 mm thick)	sqm							4,320.000	1,942	8,389,440	-
2	Concrete paver (60 mm thick) at flyover	sqm							636.000	2,357	1,499,052	-
	Total										**9,888,492**	-
13	**REGULATORY DUTIES ON LED LIGHTS**											

BRTS ABDUL SATTAR EDHI LINE (FORMERLY BRTS ORANGE LINE)
PACKAGE - 1 : M/S MS ENGINEERING SERVICES
COMPARATIVE STATEMENT

Code No	Description	Engineer's Estimate				Bill of Quantities (BOQ)			Current Work Done Status			
		Unit	Quantity	Rate	Amount (Rs) [A]	Quantity	Rate	Amount (Rs) [B]	Quantity	Rate	Amount (Rs.) [C]	Difference [A-B]
1	Type ST1 LED 90 Watts IP-65	Lumsum							76.000	4,042	307,187	-
2	Type ST2 LED 200 Watts	Lumsum							54.000	5,285	285,387	-
3	Type A2	Lumsum							-	418	-	-
4	Type A4	Lumsum							-	388	-	-
5	Type D1	Lumsum							-	973	-	-
	Total										**592,575**	-
	Grand Total + Additional Works				**803,121,434**			**673,103,279**			**512,515,528**	**130,018,155**
	Total of item code 01 (Demolition)				4,553,895			1,669,330			603,576	2,884,565
	Total of item code 02 (Flyover)				375,575,175			289,825,180			235,852,465	85,749,995
	Total of item code 03 (Roads)				158,075,785			127,096,287			66,674,632	30,979,498
	Total of item code 04 (Bus station)				250,375,479			220,059,215			161,921,734	30,316,264
	Total of item code 05 Pedestrian walkway)				12,179,300			10,773,780			2,854,899	1,405,520
	Total of item code 06 (Landscaping)				2,361,800			2,100,000			-	261,800
	Total of item code 07 (Geotechnical)				-			3,320,400			2,366,400	(3,320,400)
	Total of item code 08 (Lab Testing)				-			298,300			84,500	(298,300)
	Total of item code 09 (Additional Works)							30,023,796			28,128,985	(30,023,796)
	Total (Spare parts)							200,000	-		-	(200,000)
	Rebate (1.8% on all above codes)							-12,263,009			- 8,972,769	12,263,009
	Total				**803,121,434**			**673,103,279**			**489,514,422**	**130,018,155**
	Total paid against winching										703,136	-
	Total of item code 10 (Banaras Lighting)							0			2,241,765	-
	Total of item code 11 (Electric Poles)							0			9,575,140	-
	Total of item code 12 (Pavers)							0			9,888,492	-
	Total of item code 13 (Regulatory Duties										592,575	

BRTS ABDUL SATTAR EDHI LINE (FORMERLY BRTS ORANGE LINE)
PACKAGE - 1 : M/S MS ENGINEERING SERVICES
COMPARATIVE STATEMENT

Code No	Description	Engineer's Estimate				Bill of Quantities (BOQ)			Current Work Done Status			
		Unit	Quantity	Rate	Amount (Rs) [A]	Quantity	Rate	Amount (Rs) [B]	Quantity	Rate	Amount (Rs.) [C]	Difference [A-B]
	Grand Total (Contract Price)				**803,121,434**			**673,103,279**			**512,515,530**	**130,018,155**
	Escalations + Claims							70,158,158			70,158,158	(70,158,158)
	Total Financial Status				**803,121,434**			**743,261,437**			**582,673,688**	**59,859,997**

BRTS ABDUL SATTAR EDHI LINE (FORMERLY BRTS ORANGE LINE)
Package - 2 : M/s KNK Pvt. Ltd.
Comparative Statement

Code No	Description	Engineer's Estimate				Bill of Quantities (BOQ)			Current Work Done Status			
		Unit	Quantity	Rate	Amount (Rs) [A]	Quantity	Rate	Amount (Rs) [B]	Quantity	Rate	Amount (Rs) [C]	Difference [A-B]
1	Demolition Works											
01-1C	Demolition/ cutting of existing Load bearing structures/ buildings,shops including disposal of demolished/ dismantled materials to designated places, complete in all respect as shown on the drawings, specifications and as directed by the Engineer.	Sq.m	2,851	1,500	4,276,500	2,851	550	1,568,050	2895.32	550	1,592,426	2,708,450
01-2C	Demolition / cutting of existing RCC structures/ buildings,shops including disposal of demolished/ dismantled materials to designated places, complete in all respect as shown on the drawings, specifications and as directed by the Engineer.	Sq.m	230	1,850	425,500	230	600	138,000	521.31	600	312,786	287,500
01-3C	Dismantling/removal of existing median including related earthwork including & disposal of dismantled/ removed materials to designated places as shown on the drawings or as directed by the Engineer.	Sq.m	3887	250	971,750	3887	500	1,943,500	2622.65	500	1,311,325	(971,750)
01-4C	Dismantling/removal of existing curb stone including related earthwork including disposal of dismantled/ removed materials to designated places as shown on the drawings or as directed by the Engineer.	R.m	950	785	745,750	950	700	665,000	1844.26	700	1,290,982	80,750
01-5C	Dismantling/removal of existing footpath including related earthwork including disposal of dismantled/ removed materials to designated places as shown on the drawings or as directed by the Engineer.	Sq.m	1200	620	744,000	1200	500	600,000	86.40	500	43,200	144,000
01-6C	Removal of existing traffic signs and stacking of useable material to designated places as directed by the Engineer.	No.	2	13,300	26,600	2	3,000	6,000	0.00	3,000	-	20,600

BRTS ABDUL SATTAR EDHI LINE (FORMERLY BRTS ORANGE LINE)
Package - 2 : M/s KNK Pvt. Ltd.
Comparative Statement

Code No	Description	Engineer's Estimate				Bill of Quantities (BOQ)			Current Work Done Status			
		Unit	Quantity	Rate	Amount (Rs) [A]	Quantity	Rate	Amount (Rs) [B]	Quantity	Rate	Amount (Rs) [C]	Difference [A-B]
01-7C	Tucking the existing road surface by pickaxe, nicking upto 50mm deep cut with atleast twenty tuck/sq.m. including cleaning the road surface and disposal of Asphalt material which came out during tucking, out side municipal limits or as	Sq.m.	28,393	80	2,271,440	28,393	310	8,801,830	3680.00	310	1,140,800	(6,530,390)
	Total Demolition (Code 01)				**9,461,540**			**13,722,380**			**5,691,519**	**(4,260,840)**
2	**ROAD WORKS**											
02-1C	Excavation/ cutting in all kinds of sub-surface material including disposal of surplus/ rejected excavated materials to designated places.	Cu.m.	5,792	450	2,606,400	5,792	400	2,316,800	6760.77	400	2,704,306	289,600
02-2C	Fill & Back fill from Required excavation	Cu.m.	675	200	135,000	675	330	222,750	1002.67	330	330,880	(87,750)
02-3C	Providing and laying of sweet earth for filling in the central median/green belt including manure, watering, complete in all respect and as directed by the Engineer.	Cu.m.	1,188	1,300	1,544,400	1,188	900	1,069,200	0.00	900	-	475,200
02-4C	Selected earthfill including compaction 95% modified (AASHTO T-180, Method-D) complete in all respect as shown on the drawings, specifications and as	Cu.m.	2,942	1,200	3,530,400	2,942	1,200	3,530,400	0.00	1,200	-	-
02-5C	Subgrade preparation including compaction 95% modified (AASHTO T-180, Method-D)	Sq.m.	6,745	80	539,600	6,745	100	674,500	29992.93	100	2,999,293	(134,900)
02-6C	Aggregate Subbase Course, 150mm thick.	Cu.m.	38	1,225	46,550	38	1,800	68,400	3442.70	1,800	6,196,853	(21,850)
02-7C	Aggregate Subbase Course, 200mm thick.	Cu.m.	111	1,265	140,415	111	1,800	199,800	0.00	1,800	-	(59,385)
02-8C	Aggregate Subbase Course, 300mm thick.	Cu.m.	2,087	1,385	2,890,495	2,087	1,800	3,756,600	2095.89	1,800	3,772,610	(866,105)
02-9C	Aggregate base Course, 150mm thick.	Cu.m.	122	1,750	213,500	122	2,200	268,400	3344.40	2,200	7,357,680	(54,900)
02-10C	Aggregate base Course, 200mm thick.	Cu.m.	1,410	1,850	2,608,500	1,410	2,200	3,102,000	1380.67	2,200	3,037,474	(493,500)

BRTS ABDUL SATTAR EDHI LINE (FORMERLY BRTS ORANGE LINE)
Package - 2 : M/s KNK Pvt. Ltd.
Comparative Statement

Code No	Description	Engineer's Estimate				Bill of Quantities (BOQ)			Current Work Done Status			
		Unit	Quantity	Rate	Amount (Rs) [A]	Quantity	Rate	Amount (Rs) [B]	Quantity	Rate	Amount (Rs) [C]	Difference [A-B]
02-11C	Providing and laying Binder course of following compacted thickness as per approved Job Mix formula (JMF) using crushed aggregate of approved quality from asphalt plant, laying with asphalt finisher to required grade and compaction including prime coat complete in all respect and as directed by the Engineer.				-			0				-
	a) 50 mm thick	Sq.m	7,072	1,550	10,961,600	7,072	1,100	7,779,200	28955.24	1,100	31,850,764	3,182,400
02-12C	Providing and laying Wearing course of following compacted thickness as per approved Job Mix formula (JMF) using crushed aggregate of approved quality from asphalt plant, laying with asphalt finisher to required grade and compaction up to specified limit including tack coat complete in all respect as per				-			0			-	-
	a) 50mm thick	Sq.m	35,435	1,050	37,206,750	35,435	1,100	38,978,500	30633.71	1,100	33,697,081	(1,771,750)
02-13C	Concrete pavement of flexural strength 4.50 Mpa, using sulphate resistant cement, including all types of expansion, contraction construction joints and dowel bars, complete in all respect.	Cu.m.	111	18,500	2,053,500	111	19,000	2,109,000	211.04	19,000	4,009,760	(55,500)
02-14C	Grade 60 deformed hot rolled billet steel bars conforming to ASTM A-615.	tonne	33	120,650	3,981,450	33	122,000	4,026,000	51.18	122,000	6,243,740	(44,550)
02-15C	150mm Thick Class 'E' plain concrete using ordinary Portland cement.	Cu.m.	140	6,500	910,000	140	10,000	1,400,000	306.94	10,000	3,069,431	(490,000)
02-16C	Class 'B' fairface concrete for following structures using ordinary portland cement				-			0			-	-
	a) Foundation	Cu.m.	130	12,375	1,608,750	130	9,000	1,170,000	334.37	9,000	3,009,312	438,750
	b) Plinth Beam	Cu.m.	55	14,000	770,000	55	9,300	511,500	171.49	9,300	1,594,851	258,500
	c) Column up to plinth	Cu.m.	36	14,250	513,000	36	9,500	342,000	70.35	9,500	668,354	171,000
02-17C	Class 'B' fairface concrete for following structures using ordinary portland cement				-			0				-
	a) Columns	Cu.m.	44	14,500	638,000	44	9,600	422,400	41.16	9,600	394,934	215,600

BRTS ABDUL SATTAR EDHI LINE (FORMERLY BRTS ORANGE LINE)
Package - 2 : M/s KNK Pvt. Ltd.
Comparative Statement

Code No	Description	Engineer's Estimate				Bill of Quantities (BOQ)			Current Work Done Status			
		Unit	Quantity	Rate	Amount (Rs) [A]	Quantity	Rate	Amount (Rs) [B]	Quantity	Rate	Amount (Rs) [C]	Difference [A-B]
02-18C	Class 'B' fairface concrete for Sills, Lintels, water spouts, Planks & Coping using ordinary portland cement	Cu.m.	20	14,500	290,000	20	10,500	210,000	0.00	10,500	-	80,000
02-19C	100 Micron (min) thick polyethylene sheet conforming to ASTM E-154 complete in all respect as shown on the drawings.	Sq.m.	560	165	92,400	560	225	126,000	0.00	225	-	(33,600)
02-20C	Class 'B' fairface Cable Duct concrete for using ordinary portland cement provided & installed complete in position as shown on the drawing complete in all respect	R.m	1,715	5,200	8,918,000	1,715	1,100	1,886,500	0.00	1,100	-	7,031,500
02-21C	Precast concrete paving tiles of size 300 x 300 x 40 mm laid in approved pattern and color over 50mm thick sand cushion complete in all respects, as shown on drawings and as directed by the Engineer.	Sq.m.	4,162	2,400	9,988,800	4,162	-	0	0.00	-	-	9,988,800
02-22C	Precast Class 'B' fairfaced Kerb stone of 150x300x300 mm size using ordinary portland cement set in 1:4 cement sand mortar with 20 mm thick Cement Sand mortar base complete in all respect and as directed by the Engineer.	R.m.	4,686	1,250	5,857,500	4,686	1,300	6,091,800	7054.86	1,300	9,171,318	(234,300)
02-23C	Precast Class 'B' Edge stone of 150x300x300 mm size using ordinary portland cement set in 1:4 cement sand mortar with 20 mm thick Cement Sand mortar base complete in all respect and as directed by the Engineer.	R.m.	2,345	1,350	3,165,750	2,345	1,200	2,814,000	0.00	1,200	-	351,750
02-24C	Providing and applying traffic lane marking including arrows, lettering & zebra crossings using thermo plastic paint with glass beads, paint of specified quality as per drawings complete in all respect and as directed.	Sq.m	1,806	1,050	1,896,300	1,806	850	1,535,100	1087.60	850	924,460	361,200
02-25C	Providing and fixing reflectorized road pavement studs (light duty) of the				-			0			-	-
	a) Type (W)	No.	425	550	233,750	425	600	255,000	673.80	600	404,280	(21,250)
	b) Type (Y)	No.	572	550	314,600	572	600	343,200	816.50	600	489,900	(28,600)

BRTS ABDUL SATTAR EDHI LINE (FORMERLY BRTS ORANGE LINE)
Package - 2 : M/s KNK Pvt. Ltd.
Comparative Statement

Code No	Description	Engineer's Estimate				Bill of Quantities (BOQ)			Current Work Done Status			
		Unit	Quantity	Rate	Amount (Rs) [A]	Quantity	Rate	Amount (Rs) [B]	Quantity	Rate	Amount (Rs) [C]	Difference [A-B]
02-26C	Providing and fixing two way reflectorized road pavement studs (Heavy duty)	No.	550	750	412,500	550	750	412,500	719.00	750	539,250	-
02-27C	Traffic sign boards (permanent) of the following types including posts, foundations earthwork and related civil work etc. as shown on the drawings complete in all respect.				-			0			-	-
	a) Rectangular	No.	11	24,500	269,500	11	19,000	209,000	11.00	19,000	209,000	60,500
	b) Diagonal	No.	9	19,500	175,500	9	26,000	234,000	9.00	26,000	234,000	(58,500)
	c) Circular	No.	9	20,500	184,500	9	36,000	324,000	9.00	36,000	324,000	(139,500)
02-28C	Providing, fabrication, painting/galvanizing complete placing and fixing following signs as shown on the drawings or as directed by the Engineer, complete in all respect including structural steel work, embedded parts, foundations, earthwork and related civil works.				-			0			-	-
	a) Gantry Sign	No.	2	1,000,000	2,000,000	2	1,800,000	3,600,000	2.00	1,800,000	3,600,000	(1,600,000)
02-29C	Mild Steel grill as per design including fabrication, erection/ embedding and painting/galvanizing complete as shown on the drawings and as per specifications.				-			0			-	-
	a) Embedded parts	Kg	24,600	260	6,396,000	24,600	170	4,182,000	41597.49	170	7,071,573	2,214,000
	Total (A)				**113,093,410**			**94,170,550**			**133,905,105**	**18,922,860**
	Electrical Works											
02-1e	Following LED street/flood light											-
a	Type ST 1 street light 90 watts	No	60	65,000	3,900,000	60	18,600	1,116,000	0.00	18,600	-	2,784,000
b	Type ST 2 street light 200 watts	No	60	111,250	6,675,000	60	37,200	2,232,000	0.00	37,200	-	4,443,000
02-2e	Single core / multicore PVC insulated and PVC sheathed armour copper conductor (4 core) 16 sq mm	RM	3,580	935	3,347,300	3,580	870	3,114,600	2864.00	870	2,491,680	232,700
02-3e	Wiring of 10 meter high single / two arm street light columns	No	120	5,000	600,000	120	1,600	192,000	96.00	1,600	153,600	408,000
02-4e	Following size internal dia underground uPVC Class D pipes				-			0				-
a	100 mm dia	RM	250	1,410	352,500	250	1,170	292,500	1545.00	1,170	1,807,650	60,000
b	50 mm dia	RM	5,980	410	2,451,800	5,980	530	3,169,400	584.00	530	309,520	(717,600)

BRTS ABDUL SATTAR EDHI LINE (FORMERLY BRTS ORANGE LINE)
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Comparative Statement

Code No	Description	Engineer's Estimate				Bill of Quantities (BOQ)			Current Work Done Status			
		Unit	Quantity	Rate	Amount (Rs) [A]	Quantity	Rate	Amount (Rs) [B]	Quantity	Rate	Amount (Rs) [C]	Difference [A-B]
02-5e	100 mm dia of underground Class D pipes	RM	1,780	1,410	2,509,800	1,780	1,170	2,082,600	1424.00	1,170	1,666,080	427,200
02-6e	Single core PVC insulated copper (16 sq mm)	RM	2,530	300	759,000	2,530	300	759,000	2024.00	300	607,200	-
02-7e	19 mm dia 3 meter long copper cladded steel	No	19	25,000	475,000	19	27,600	524,400	15.20	27,600	419,520	(49,400)
02-8e	Hot dipped galvanized 10 meter column (2 arm)	RA			-			0			-	-
a	10 m high with single arm	No	6	100,000	600,000	6	59,600	357,600				242,400
b	10 m high with double arm	No	57	105,000	5,985,000	57	59,600	3,397,200				2,587,800
02-9e	RCC handhole of 600x600x600 mm	Job	30	45,000	1,350,000	30	4,000	120,000	30.00	4,000	120,000	1,230,000
	Total (B)				**29,005,400**			**17,357,300**			**7,575,250**	**11,648,100**
	Total Road Work (Code 02)				**142,098,810**			**111,527,850**			**141,480,355**	**30,570,960**
3	**BUS DEPOT**											
3a	**Administration Building**											
3a-1c (a)	Excavation in all kind of sub surface (0 to 2 m)	cum	858	630	540,540	858	500	429,000	726.14	500	363,070	111,540
b	(2 to 4 meters)	cum	35	830	29,050	35	600	21,000	36.33	600	21,798	8,050
3a-2c	Fill and backfill with selected materials	cum	470	200	94,000	470	330	155,100	1426.69	330	470,809	(61,100)
3a-3c	Providing and laying of sweet earth for filling	cum	10	1,300	13,000	10	900	9,000	134.39	900	120,951	4,000
3a-4c	150 mm thick compacted stone soling	Sqm	820	550	451,000	820	400	328,000	0.00	400	-	123,000
3a-5c	100 mm thick compacted stone soling	Sqm	70	450	31,500	70	300	21,000	646.46	300	193,938	10,500
3a-6c	Termite control treatment	Sqm	890	140	124,600	890	270	240,300	1010.53	270	272,843	(115,700)
3a-7c	Class E plain cement concrete using OPC	cum	55	6,500	357,500	55	10,000	550,000	52.27	10,000	522,660	(192,500)
3a-8c	Class D plain cement concrete using OPC	cum	22	8,500	187,000	22	15,000	330,000	0.00	15,000	-	(143,000)
3a-9c	Class D plain cement concrete using OPC	cum	7	9,500	66,500	7	15,000	105,000	0.00	15,000	-	(38,500)
3a-10c	Light wieght foam concrete using OPC	cum	40	15,000	600,000	40	14,000	560,000	0.00	14,000	-	40,000
3a-11c	Class B reinforced concrete in following				-			0			-	-
a	Foundation	cum	235	12,375	2,908,125	235	9,000	2,115,000	250.31	9,000	2,252,799	793,125
b	Plinth beam	cum	60	14,000	840,000	60	9,300	558,000	48.14	9,300	447,702	282,000
c	Trenches (base+wall)	cum	10	14,500	145,000	10	9,500	95,000	0.00	9,500	-	50,000

BRTS ABDUL SATTAR EDHI LINE (FORMERLY BRTS ORANGE LINE)
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Comparative Statement

Code No	Description	Engineer's Estimate				Bill of Quantities (BOQ)			Current Work Done Status			
		Unit	Quantity	Rate	Amount (Rs) [A]	Quantity	Rate	Amount (Rs) [B]	Quantity	Rate	Amount (Rs) [C]	Difference [A-B]
3a-12c	Class A reinforced concrete using OPC	cum	18	19,350	348,300	18	12,500	225,000	35.31	12,500	441,388	123,300
3a-13c	Class B reinforced concrete in following				-			0			-	-
a	Beams and lintels	cum	55	15,300	841,500	55	12,000	660,000	28.29	12,000	339,480	181,500
b	Slab and projections	cum	440	14,500	6,380,000	440	12,000	5,280,000	100.83	12,000	1,209,960	1,100,000
c	Purdi	cum	28	16,000	448,000	28	13,000	364,000	13.07	13,000	169,910	84,000
d	Staircase	cum	5	17,500	87,500	5	13,000	65,000	0.00	13,000	-	22,500
e	Ribs	cum	2	15,500	31,000	2	14,000	28,000	5.97	14,000	83,580	3,000
3a-14c	Class A reinforced concrete using OPC				-			0			-	-
a	Columns	cum	35	19,500	682,500	35	13,000	455,000	30.21	13,000	392,678	227,500
b	Base slab	cum	9	16,500	148,500	9	13,000	117,000	4.75	13,000	61,698	31,500
c	Walls	cum	6	17,500	105,000	6	14,000	84,000	4.97	14,000	69,580	21,000
3a-15c	Precast fairfaced Class B reonforced concrete	cum	2	15,000	30,000	2	13,000	26,000	0.00	13,000	-	4,000
3a-16c	Hot rolled worked billet steel bars A-706	tonne	115	120,650	13,874,750	115	122,000	14,030,000	60.07	122,000	7,327,930	(155,250)
3a-17c	Precast facing tile envicrete or eq.	Sqm	182	2,400	436,800	182	1,100	200,200	0.00	1,100	-	236,600
3a-18c	Stainless steel staircase handrailing floor	RM	8	25,000	200,000	8	2,000	16,000	0.00	2,000	-	184,000
3a-19c	Stainless steel staircase handrailing wall	RM	13	20,000	260,000	13	2,200	28,600	0.00	2,200	-	231,400
3a-20c	Reinforced masonry of following (1:6)				-			0			-	-
a	150 mm thick hollow block	cum	115	9,500	1,092,500	115	10,000	1,150,000	91.91	10,000	919,083	(57,500)
b	100 mm thick solid block	cum	6	10,500	63,000	6	12,600	75,600	0.00	12,600	-	(12,600)
3a-21c	12 mm thick (1:4) plaster	Sqm	2,192	575	1,260,400	2,192	500	1,096,000	722.26	500	361,130	164,400
3a-22c	20 mm thick (1:4) plaster	Sqm	350	650	227,500	350	550	192,500	0.00	550	-	35,000
3a-23c	20 mm thick (1:4) plaster (water proof)	Sqm	48	675	32,400	48	600	28,800	0.00	600	-	3,600
3a-24c	Colour crete laid in approved pattern	Sqm	635	850	539,750	635	600	381,000	0.00	600	-	158,750
3a-25c	Wooden doors of following				-			0			-	-
a	Type D1	Sqm	14	17,000	238,000	14	4,000	56,000	14.00	4,000	56,000	182,000
b	Type D2	Sqm	19	17,000	323,000	19	5,000	95,000	19.00	5,000	95,000	228,000
c	Type D3	Sqm	15	17,000	255,000	15	6,000	90,000	15.00	6,000	90,000	165,000
3a-26c	Kitchen cabinet of approved design				-			0			-	-
a	Floor mounted cabinets i/c marble	RM	5	12,500	62,500	5	8,000	40,000	5.00	8,000	40,000	22,500
b	Wall mounted	RM	5	10,500	52,500	5	10,000	50,000	5.00	10,000	50,000	2,500

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Comparative Statement

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		Unit	Quantity	Rate	Amount (Rs) [A]	Quantity	Rate	Amount (Rs) [B]	Quantity	Rate	Amount (Rs) [C]	Difference [A-B]
3a-27c	Anodized alumunium openable doors				-			0			-	-
a	D4	Sqm	6	12,500	75,000	6	9,500	57,000	0.00	9,500	-	18,000
b	D5	Sqm	8	12,500	100,000	8	12,000	96,000	7.56	12,000	90,720	4,000
3a-28c	Anodized alumunium glazed sliding/fix doors				-			0			-	-
a	DW1	Sqm	5	12,500	62,500	5	11,000	55,000	5.04	11,000	55,440	7,500
b	DW2	Sqm	10	12,500	125,000	10	14,000	140,000	9.77	14,000	136,710	(15,000)
c	DW3	Sqm	10	12,500	125,000	10	14,000	140,000	9.45	14,000	132,300	(15,000)
d	DW4	Sqm	13	12,500	162,500	13	15,000	195,000	10.39	15,000	155,850	(32,500)
3a-29c	Anodized alumunium galzed sliding windows				-			0			-	-
a	W1	Sqm	2	12,500	25,000	2	14,000	28,000	2.16	14,000	30,240	(3,000)
b	W2	Sqm	2	12,500	25,000	2	14,000	28,000	1.32	14,000	18,480	(3,000)
c	W3	Sqm	5	12,500	62,500	5	14,000	70,000	3.30	14,000	46,200	(7,500)
d	W4	Sqm	5	12,500	62,500	5	15,000	75,000	6.48	15,000	97,200	(12,500)
e	W5	Sqm	14	12,500	175,000	14	15,000	210,000	2.88	15,000	43,200	(35,000)
f	W5a	Sqm	14	12,500	175,000	14	15,000	210,000	25.20	15,000	378,000	(35,000)
g	W6	Sqm	17	12,500	212,500	17	16,000	272,000	8.19	16,000	131,040	(59,500)
h	W7	Sqm	3	12,500	37,500	3	16,000	48,000	18.68	16,000	298,800	(10,500)
i	V1	Sqm	2	12,500	25,000	2	15,000	30,000	1.44	15,000	21,600	(5,000)
j	V2	Sqm	5	12,500	62,500	5	15,000	75,000	0.00	15,000	-	(12,500)
3a-30c	Shower glazing/partition in bath i/c fixings	Sqm	10	18,500	185,000	10	3,500	35,000	0.00	3,500	-	150,000
3a-31c	100 mm thick class D cement concrete floor	Sqm	820	925	758,500	820	600	492,000	647.46	600	388,476	266,500
3a-32c	75 mm thick class C cement concrete floor	Sqm	8	850	6,800	8	750	6,000	0.00	750	-	800
3a-33c	Porcelain tile floor using 300x300 mm	Sqm	35	3,200	112,000	35	2,400	84,000	33.30	2,400	79,920	28,000
3a-34c	Porcelain title dado using tile of approved	Sqm	135	3,400	459,000	135	2,200	297,000	144.05	2,200	316,899	162,000
3a-35c	Porcelain tile floor using 600x600 mm	Sqm	690	3,600	2,484,000	690	2,600	1,794,000	417.60	2,600	1,085,760	690,000
3a-36c	Porcelain tile skirting 100 mm high	Sqm	38	3,200	121,600	38	2,400	91,200	19.00	2,400	45,600	30,400
3a-37c	Vanity tops as per design 200 mm thick	Sqm	4	20,245	80,980	4	5,000	20,000	2.00	5,000	10,000	60,980
3a-38c	20 mm thick marble slab	Sqm	108	4,500	486,000	108	3,500	378,000	54.00	3,500	189,000	108,000
3a-39c	12 mm thick Boticina marble slab	Sqm	20	3,800	76,000	20	3,500	70,000	10.00	3,500	35,000	6,000
3a-40c	Boticina marble skirting 100 mm high	Sqm	5	3,500	17,500	5	3,500	17,500	2.50	3,500	8,750	-

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Comparative Statement

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		Unit	Quantity	Rate	Amount (Rs) [A]	Quantity	Rate	Amount (Rs) [B]	Quantity	Rate	Amount (Rs) [C]	Difference [A-B]
3a-41c	Floor comprising anti static heavy duty PVC tile	Sqm	20	4,500	90,000	20	2,800	56,000	0.00	2,800	-	34,000
3a-42c	Two coats of hot bitumen grade 10/20	Sqm	1,370	520	712,400	1,370	270	369,900	1310.58	270	353,857	342,500
3a-43c	Water proofing and build up roofing slab	Sqm	830	4,500	3,735,000	830	350	290,500	0.00	350	-	3,444,500
3a-44c	Crystallin water proof slurry (Aquafin or eq.)	Sqm	190	1,200	228,000	190	300	57,000	0.00	300	-	171,000
3a-45c	20 mm dia MS galvanized ladder rungs	Nos	5	720	3,600	5	1,000	5,000	0.00	1,000	-	(1,400)
3a-46c	Distemper paint to surface of ceiling	Sqm	740	250	185,000	740	450	333,000	444.00	450	199,800	(148,000)
3a-47c	Matt Enamel paint of approved make	Sqm	1,326	500	663,000	1,326	550	729,300	795.60	550	437,580	(66,300)
3a-48c	Weather resistant paint of approved make	Sqm	350	400	140,000	350	600	210,000	210.00	600	126,000	(70,000)
	Total				**46,465,095**			**37,414,500**			**21,286,408**	**9,050,595**
	Piping / Plumbing (Water Supply)											
3a-1p	PPR cold & hot water pipes											-
a	15 mm	RM	25	200	5,000	25	160	4,000	0.00	160	-	1,000
b	20 mm	RM	15	230	3,450	15	190	2,850	0.00	190	-	600
c	25 mm	RM	5	360	1,800	5	300	1,500	0.00	300	-	300
d	32 mm	RM	15	600	9,000	15	460	6,900	0.00	460	-	2,100
e	40 mm	RM	20	915	18,300	20	705	14,100	0.00	705	-	4,200
3a-2p	Bronze gate valve				-			0				-
a	15 mm	No	2	2,500	5,000	2	2,000	4,000	0.00	2,000	-	1,000
b	20 mm	No	3	3,000	9,000	3	2,600	7,800	0.00	2,600	-	1,200
c	32 mm	No	1	6,000	6,000	1	3,400	3,400	0.00	3,400	-	2,600
d	40 mm	No	5	7,500	37,500	5	3,800	19,000	0.00	3,800	-	18,500
3a-3p	CP brass bib tap (15 mm)	No	8	1,000	8,000	8	600	4,800	0.00	600	-	3,200
3a-4p	Stop cock brass chromium plated	No	16	1,200	19,200	16	900	14,400	0.00	900	-	4,800
3a-5p	Electric water heater of following capacity				-			0				-
a	3 gallons	No	1	10,500	10,500	1	6,000	6,000	0.00	6,000	-	4,500
b	8 gallons	No	1	13,500	13,500	1	10,500	10,500	0.00	10,500	-	3,000
c	10 gallons	No	1	14,500	14,500	1	12,000	12,000	0.00	12,000	-	2,500
d	12 gallons	No	1	15,500	15,500	1	13,500	13,500	0.00	13,500	-	2,000
3a-6p	Europeon water closet	No	1	16,500	16,500	1	10,500	10,500	0.00	10,500	-	6,000
3a-7p	Asian water closet	No	7	8,500	59,500	7	8,000	56,000	0.00	8,000	-	3,500
3a-8p	Counter type wash basin	No	8	8,000	64,000	8	9,500	76,000	0.00	9,500	-	(12,000)
3a-9p	Imported glass mirror of Belgium	Sqm	8	400	3,200	8	11,500	92,000	0.00	11,500	-	(88,800)

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		Unit	Quantity	Rate	Amount (Rs) [A]	Quantity	Rate	Amount (Rs) [B]	Quantity	Rate	Amount (Rs) [C]	Difference [A-B]
3a-10p	Towel rail	No	5	2,000	10,000	5	1,150	5,750	0.00	1,150	-	4,250
3a-11p	Toilet paper holder	No	1	1,500	1,500	1	850	850	0.00	850	-	650
3a-12p	Stainless steel kitchen sink	No	2	18,000	36,000	2	9,500	19,000	0.00	9,500	-	17,000
3a-13p	Soap tray	No	6	1,850	11,100	6	800	4,800	0.00	800	-	6,300
3a-14p	Abulution taps	No	6	1,200	7,200	6	2,000	12,000	0.00	2,000	-	(4,800)
3a-15p	uPVC soil waste and vent pipes				-			0	0.00		-	-
a	32 mm	RM	10	450	4,500	10	420	4,200	0.00	420	-	300
b	75 mm	RM	55	840	46,200	55	1,500	82,500	12.00	1,500	18,000	(36,300)
c	100 mm	RM	35	1,310	45,850	35	1,950	68,250	36.00	1,950	70,200	(22,400)
3a-16p	uPVC floor drain (75 mm dia)	No	9	1,500	13,500	9	1,800	16,200	0.00	1,800	-	(2,700)
3a-17p	uPVC floor trap (75 mm dia)	No	1	1,500	1,500	1	1,300	1,300	0.00	1,300	-	200
3a-18p	uPVC floor cleanout of following				-			0			-	-
a	75 mm	No	5	1,800	9,000	5	600	3,000	0.00	600	-	6,000
b	100 mm	No	4	2,000	8,000	4	750	3,000	0.00	750	-	5,000
3a-19p	Water level indicator	No	1	15,000	15,000	1	5,000	5,000	0.00	5,000	-	10,000
3a-20p	Cast iron cover with frame (600x600 mm)	No	2	20,500	41,000	2	4,000	8,000	0.00	4,000	-	33,000
3a-21p	Galvanized MS ladder rungs for OHWT	No	5	650	3,250	5	380	1,900	0.00	380	-	1,350
3a-22p	GI U turn vent pipe (75 mm)	No	1	4,500	4,500	1	5,200	5,200	0.00	5,200	-	(700)
3a-23p	PE filling pipe (12.5 bars) (25 mm dia)	RM	10	4,500	45,000	10	88	880	0.00	88	-	44,120
3a-24p	PE filling pipe (12.5 bars) (15 mm dia)	RM	5	60	300	5	68	340	0.00	68	-	(40)
b	20 mm	RM	100	70	7,000	100	80	8,000	0.00	80	-	(1,000)
c	32 mm	RM	3	110	330	3	130	390	0.00	130	-	(60)
d	40 mm	RM	40	180	7,200	40	200	8,000	0.00	200	-	(800)
3a-25p	Fire hose cabinet i/c all accessories	No	2	58,500	117,000	2	138,500	277,000	0.00	138,500	-	(160,000)
3a-26p	Seamless black steel pipe conforming A-53				-			0			-	-
a	75 mm	RM	15	3,250	48,750	15	4,900	73,500	0.00	4,900	-	(24,750)
b	65 mm	RM	25	2,650	66,250	25	4,200	105,000	0.00	4,200	-	(38,750)
	Total				**869,380**			**1,073,310**			**88,200**	**(203,930)**
3e	**Electrical Items**											
3a-1e	LT switch board (LT-AB)	Job	1	534,975	534,975	1	527,000	527,000	0.80	527,000	421,600	7,975
3a-2e	LT distribution board (LDB-GF)	Job	1	113,800	113,800	1	92,000	21,800	0.80	92,000	73,600	92,000
b	PDB-GF	Job	1	205,000	205,000	1	132,000	73,000	0.80	132,000	105,600	132,000
c	UDB-GF	Job	1	60,000	60,000	1	51,000	9,000	0.80	51,000	40,800	51,000

BRTS ABDUL SATTAR EDHI LINE (FORMERLY BRTS ORANGE LINE)
Package - 2 : M/s KNK Pvt. Ltd.
Comparative Statement

Code No	Description	Engineer's Estimate				Bill of Quantities (BOQ)			Current Work Done Status			
		Unit	Quantity	Rate	Amount (Rs) [A]	Quantity	Rate	Amount (Rs) [B]	Quantity	Rate	Amount (Rs) [C]	Difference [A-B]
3a-3e	Following LED or compact light fixtures				-			0			-	-
a	A1	No	67	15,000	1,005,000	67	3,400	1,001,600	53.60	3,400	182,240	3,400
b	A2	No	10	9,750	97,500	10	3,800	93,700	8.00	3,800	30,400	3,800
c	A3	No	8	7,500	60,000	8	2,900	57,100	6.40	2,900	18,560	2,900
d	A4	No	13	8,250	107,250	13	2,700	104,550	10.40	2,700	28,080	2,700
e	D1	No	26	5,500	143,000	26	2,300	140,700	20.80	2,300	47,840	2,300
f	E1	No	11	10,500	115,500	11	1,600	113,900	8.80	1,600	14,080	1,600
g	EX	No	16	11,625	186,000	16	5,300	180,700	12.80	5,300	67,840	5,300
3a-4e	Following sizes of single/multi core				-			0			-	-
a	1 core 10 sqmm	RM	20	270	5,400	20	202	5,198	16.00	202	3,232	202
b	4 core 16 sqmm	RM	10	935	9,350	10	1,000	8,350	8.00	1,000	8,000	1,000
c	4 core 70 sqmm	RM	10	3,725	37,250	10	3,400	33,850	8.00	3,400	27,200	3,400
3a-5e	Wiring of light circuits from DB	No	14	6,000	84,000	14	3,200	80,800	21.70	3,200	69,440	3,200
3a-6e	Wiring of light/exhaust	No	80	3,500	280,000	80	1,200	278,800	113.00	1,200	135,600	1,200
3a-7e	Same as above but wiring point to point	No	81	2,500	202,500	81	800	201,700	93.00	800	74,400	800
3a-8e	Wiring from DB to impulse relay control	No	4	6,000	24,000	4	3,200	20,800	6.20	3,200	19,840	3,200
3a-9e	Wiring of light point to point	No	16	3,500	56,000	16	600	55,400	41.00	600	24,600	600
3a-10e	**Wiring of 16A**				-			0			-	-
a	From DB to outlet	No	18	6,000	108,000	18	3,200	104,800	28.40	3,200	90,880	3,200
b	From outlet to outlet	No	98	3,500	343,000	98	1,100	341,900	130.00	1,100	143,000	1,100
3a-11e	Wiring from DB to 20A	No	2	8,000	16,000	2	5,900	10,100	1.60	5,900	9,440	5,900
3a-12e	Wiring from DB to 16A	No	6	8,000	48,000	6	6,400	41,600	4.80	6,400	30,720	6,400
3a-13e	Wiring from DB to 25 A	No	6	12,000	72,000	6	8,500	63,500	4.80	8,500	40,800	8,500
3a-14e	Wiring from DB to 20A	No	7	13,500	94,500	7	10,000	84,500	5.60	10,000	56,000	10,000
3a-15e	Wiring of 32A 250 volt	No	1	12,000	12,000	1	8,500	3,500	0.80	8,500	6,800	8,500
3a-16e	16 Amp, 250 volt	No	110	1,000	110,000	110	1,000	109,000	15.00	1,000	15,000	1,000
3a-17e	13 Amp 250 volts	No	6	1,500	9,000	6	500	8,500	4.80	500	2,400	500
3a-18e	20 Amps 250 volt	No	2	2,000	4,000	2	600	3,400	1.60	600	960	600
3a-19e	32 Amps 250 volts	No	1	3,000	3,000	1	1,600	1,400	0.80	1,600	1,280	1,600
3a-20e	Underground uPVC (100 mm dia)	RM	20	1,410	28,200	20	1,200	27,000	16.00	1,200	19,200	1,200
3a-21e	Following size of single core copper cable				-			0			-	-
a	10 sqmm	RM	10	200	2,000	10	200	1,800	8.00	200	1,600	200
b	16 sqmm	RM	10	300	3,000	10	300	2,700	8.00	300	2,400	300

BRTS ABDUL SATTAR EDHI LINE (FORMERLY BRTS ORANGE LINE)
Package - 2 : M/s KNK Pvt. Ltd.
Comparative Statement

Code No	Description	Engineer's Estimate				Bill of Quantities (BOQ)			Current Work Done Status			
		Unit	Quantity	Rate	Amount (Rs) [A]	Quantity	Rate	Amount (Rs) [B]	Quantity	Rate	Amount (Rs) [C]	Difference [A-B]
c	35 sqmm	RM	10	650	6,500	10	550	5,950	8.00	550	4,400	550
d	70 sqmm	RM	25	1,260	31,500	25	750	30,750	20.00	750	15,000	750
3a-22e	600 x 600 x 3 mm tin plated copper plate	No	2	40,000	80,000	2	28,000	52,000	1.60	28,000	44,800	28,000
3a-23e	Earth connecting point with all accessories	No	2	5,000	10,000	2	5,400	4,600	1.60	5,400	8,640	5,400
3a-24e	Following size perforated GI sheet (150 x 50mm)	RM	15	1,250	18,750	15	1,800	16,950	12.00	1,800	21,600	1,800
3a-25e	Following rating SP&N+E/TP&N+E				-			0			-	-
a	16 Amp SP&N	No	6	5,500	33,000	6	2,700	30,300	4.80	2,700	12,960	2,700
b	25 Amp SP&N	No	6	5,500	33,000	6	2,700	30,300	4.80	2,700	12,960	2,700
c	20 Amp TP&N	No	7	11,500	80,500	7	3,200	77,300	5.60	3,200	17,920	3,200
3a-26e	14" dia single phase 250 V wall bracket louver fan	No	12	4,000	48,000	12	3,200	44,800	9.60	3,200	30,720	3,200
3a-27e	56" sweep single phase 250 V ceiling fans	No	7	5,500	38,500	7	3,600	34,900	5.60	3,600	20,160	3,600
3a-28e	5 kVA, 230 volt, 50 Hz (UPS)	No	1	550,000	550,000	1	245,000	305,000	0.80	245,000	196,000	245,000
3a-29e	10 kVA, 230 volts, 50 Hz (UPS)	No	1	1,000,000	1,000,000	1	692,000	308,000	0.80	692,000	553,600	692,000
3a-30e	8" dia single phase, 250 V exhaust fans	No	11	4,500	49,500	11	2,000	47,500	8.80	2,000	17,600	2,000
3a-31e	Following types PVC conduits				-			0			-	-
a	20 mm dia	RM	226	73	16,498	226	75	16,423	180.80	75	13,560	75
b	25 mm dia	RM	452	94	42,488	452	110	42,378	361.60	110	39,776	110
3a-32e	Wiring of RJ45 telecom wall outlet from DB	No	71	2,967	210,657	71	4,300	206,357	56.80	4,300	244,240	4,300
3a-33e	Plastic white cover plate with sheet steel	No	4	369	1,476	4	426	1,050	3.20	426	1,363	426
3a-34e	Following type CAT-6A UTP RJ45				-			0			-	-
a	One port	No	7	1,383	9,681	7	1,000	8,681	5.60	1,000	5,600	1,000
b	Two port	No	32	2,402	76,864	32	1,700	75,164	25.60	1,700	43,520	1,700
3a-35e	Following type CAT-6A UTP LSZH				-			0			-	-
a	1 meter patch cord	No	37	1,049	38,813	37	700	38,113	29.60	700	20,720	700
b	3 meter patch cord	No	37	1,748	64,676	37	1,100	63,576	29.60	1,100	32,560	1,100
3a-36e	1 meter long patch cord	No	32	532	17,024	32	1,500	15,524	25.60	1,500	38,400	1,500
3a-37e	10 pair IDC with mounting frame	No	22	5,320	117,040	22	12,000	105,040	17.60	12,000	211,200	12,000
3a-38e	CAT-6A UTP	No	2	31,920	63,840	2	20,000	43,840	1.60	20,000	32,000	20,000
3a-39e	19" rack mounted front cable management	No	2	2,508	5,016	2	4,300	716	1.60	4,300	6,880	4,300

BRTS ABDUL SATTAR EDHI LINE (FORMERLY BRTS ORANGE LINE)
Package - 2 : M/s KNK Pvt. Ltd.
Comparative Statement

Code No	Description	Engineer's Estimate				Bill of Quantities (BOQ)			Current Work Done Status			
		Unit	Quantity	Rate	Amount (Rs) [A]	Quantity	Rate	Amount (Rs) [B]	Quantity	Rate	Amount (Rs) [C]	Difference [A-B]
3a-40e	24 port loaded with LC Duplex couping	No	1	55,480	55,480	1	8,500	46,980	0.80	8,500	6,800	8,500
3a-41e	Pull box of appropriate size	No	2	10,000	20,000	2	5,000	15,000	1.60	5,000	8,000	5,000
3a-42e	16 SWG telephone junction box	No	1	14,440	14,440	1	8,000	6,440	0.80	8,000	6,400	8,000
3a-43e	27U (800x600) 19" rack	No	1	51,830	51,830	1	37,000	14,830	0.80	37,000	29,600	37,000
3a-44e	20 mm dia PVC conduit	RM	130	73	9,490	130	100	9,390	104.00	100	10,400	100
3a-45e	1.5 sqmm fire resistant 2 core cable	RM	140	274	38,360	140	400	37,960	112.00	400	44,800	400
3a-46e	Inteligent addressable optical smoke/heat detector	No	11	12,464	137,104	11	6,400	130,704	8.80	6,400	56,320	6,400
3a-47e	Inteligent addressable heat detector	No	1	9,424	9,424	1	6,400	3,024	0.80	6,400	5,120	6,400
3a-48e	Inteligent addressable manual call point	No	4	10,640	42,560	4	6,400	36,160	3.20	6,400	20,480	6,400
3a-49e	Loop powered addressable directional sound	No	1	12,920	12,920	1	7,500	5,420	0.80	7,500	6,000	7,500
3a-50e	4 loop inteligent addressable fire alarm control	No	1	1,094,400	1,094,400	1	415,000	679,400	0.80	415,000	332,000	415,000
3a-51e	20 mm dia PVC conduit	RM	175	73	12,775	175	100	12,675	140.00	100	14,000	100
3a-52e	8-way splitter with insulation	No	1	8,100	8,100	1	4,800	3,300	0.80	4,800	3,840	4,800
3a-53e	TV outlet with face plate and sheet steel	No	6	6,075	36,450	6	500	35,950	4.80	500	2,400	500
3a-54e	RG-6 horizantal solid copper	RM	175	54	9,450	175	100	9,350	140.00	100	14,000	100
	Total				**8,375,331**			**6,463,443**			**4,019,771**	**1,911,888**
3a-1m	**Internal Gas Piping**											
3a-1m	Supply, installation, testing and comm (1/2")	ft	200	90	18,000	200	100	20,000		100	-	(2,000)
3a-2m	Providing and fixing ball valve (1/2")	No	4	2,000	8,000	4	850	3,400		850	-	4,600
	Total				**26,000**			**23,400**			**-**	**2,600**
3a-1h	**HVAC Works Admin**											
3a-1h	Split type AC										-	-
a	Code AC/1-1 to CU/1-2	No	2	112,680	225,360	2	70,000	140,000		70,000	-	85,360
b	Code AC/2-1 to CU/2-4	No	4	154,300	617,200	4	87,500	350,000		87,500	-	267,200
c	Code AC/3-1 to AC/3-4	No	4	203,450	813,800	4	165,000	660,000		165,000	-	153,800
d	Code AC/4-1 to AC/4-3	No	3	345,293	1,035,879	3	530,000	1,590,000		530,000	-	(554,121)
3a-2h	Exhaust air fan propeller type				-			0			-	-
a	Code EF/1-1	No	4	5,000	20,000	4	40,000	160,000		40,000	-	(140,000)
b	Code EF/2-1	No	4	5,000	20,000	4	60,000	240,000		60,000	-	(220,000)
c	Code EF/3	No	1	6,000	6,000	1	75,000	75,000		75,000	-	(69,000)
d	Code EF/4-1	No	2	8,000	16,000	2	95,000	190,000		95,000	-	(174,000)

BRTS ABDUL SATTAR EDHI LINE (FORMERLY BRTS ORANGE LINE)
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Comparative Statement

Code No	Description	Engineer's Estimate				Bill of Quantities (BOQ)			Current Work Done Status			
		Unit	Quantity	Rate	Amount (Rs) [A]	Quantity	Rate	Amount (Rs) [B]	Quantity	Rate	Amount (Rs) [C]	Difference [A-B]
3a-3h (a)	Extra copper tube with insulation	RM	76	3,200	243,200	76	1,780	135,280		1,780	-	107,920
b	AC/4-1	RM	46	4,800	220,800	46	3,000	138,000		3,000	-	82,800
3a-4h	Condensate drain i/c fittings				-			0			-	-
a	Nom dia 20 mm	RM	20	225	4,500	20	68	1,360		68	-	3,140
b	Nom dia 25 mm	RM	8	240	1,920	8	90	720		90	-	1,200
c	Nom dia 32 mm	RM	13	280	3,640	13	115	1,495		115	-	2,145
3a-5h	Condensate drain i/c fittings				-			0			-	-
a	Nom dia 20 mm	RM	20	110	2,200	20	110	2,200		110	-	-
b	Nom dia 25 mm	RM	8	125	1,000	8	135	1,080		135	-	(80)
c	Nom dia 32 mm	RM	13	145	1,885	13	165	2,145		165	-	(260)
3a-6h	Foundation i/c cocksheet	lot	1	270,000	270,000	1	850,000	850,000		850,000	-	(580,000)
3a-7h	Electrical works i/c power and control	lot	1	80,000	80,000	1	980,000	980,000		980,000	-	(900,000)
3a-8h	Painting and identification of service	lot	1	25,000	25,000	1	475,000	475,000		475,000	-	(450,000)
3a-9h	Supply of essential spare parts	lot	1	15,000	15,000	1	1,200,000	1,200,000		1,200,000	-	(1,185,000)
	Total				**3,623,384**			**7,192,280**				**(3,568,896)**
	Total Admin Building (Code 3a)				**59,359,190**			**52,166,933**			**25,394,379**	**7,192,257**
3b	**REST AREA (DEPOT)**											
3b-1c	Excavation of all kinds of sub surface										-	-
a	0-2 m	cum	132	630	83,160	132	500	66,000	28.77	500	14,385	17,160
b	2-4 meter depth	cum	40	830	33,200	40	600	24,000	0.60	600	360	9,200
3b-2c	Fill and backfill with selected materials	cum	175	200	35,000	175	330	57,750	0.00	330	-	(22,750)
3b-3c	150 mm compacted stone	Sqm	125	550	68,750	125	300	37,500	0.00	300	-	31,250
3b-4c	100 mm thick	Sqm	35	450	15,750	35	280	9,800	0.00	280	-	5,950
3b-5c	Termite control treatment to surfaces	Sqm	160	140	22,400	160	270	43,200	0.00	270	-	(20,800)
3b-6c	Class E plain cement concrete using OPC	cum	9	6,500	58,500	9	10,000	90,000	3.71	10,000	37,100	(31,500)
3b-7c	Class E plain reduced aggregate cement	cum	2	6,500	13,000	2	10,000	20,000	1.44	10,000	14,400	(7,000)
3b-8c	Class D plain cement concrete using OPC	cum	6	8,500	51,000	6	15,000	90,000	0.00	15,000	-	(39,000)
3b-9c	Class D plain cement concrete using OPC	cum	4	9,500	38,000	4	15,000	60,000	0.00	15,000	-	(22,000)
3b-10c	Class B reinforced concrete in following				-			0			-	-
a	Foundation	cum	5	12,375	61,875	5	9,000	45,000	6.73	9,000	60,552	16,875
b	Plinth beam	cum	9	14,000	126,000	9	9,300	83,700	6.67	9,300	62,031	42,300

BRTS ABDUL SATTAR EDHI LINE (FORMERLY BRTS ORANGE LINE)
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Comparative Statement

Code No	Description	Engineer's Estimate				Bill of Quantities (BOQ)			Current Work Done Status			
		Unit	Quantity	Rate	Amount (Rs) [A]	Quantity	Rate	Amount (Rs) [B]	Quantity	Rate	Amount (Rs) [C]	Difference [A-B]
c	Column	cum	2	14,250	28,500	2	9,500	19,000	1.12	9,500	10,640	9,500
3b-11c	Class B reinforced concrete in following				-			0			-	-
a	Columns	cum	3	14,500	43,500	3	13,000	39,000	2.5	13,000	32,500	4,500
b	Beam and lintel	cum	5	15,300	76,500	5	12,000	60,000	15.52	12,000	186,240	16,500
c	Slab and projections	cum	25	14,500	362,500	25	12,000	300,000	29.11	12,000	349,320	62,500
d	Purdi	cum	1	16,000	16,000	1	13,000	13,000	3.072	13,000	39,936	3,000
3b-12c	Class A underground water tank concrete				-			0			-	-
a	Base slab	cum	13	16,500	214,500	13	13,000	169,000	8.64	13,000	112,320	45,500
b	Top slab	cum						0	5.36	14,000	75,040	-
c	Walls	cum	18	17,500	315,000	18	14,000	252,000	12.09	14,000	169,260	63,000
3b-13c	Precast fairfaced Class B reonforced concrete	cum	2	15,000	30,000	2	14,000	28,000	0.00	14,000	-	2,000
3b-14c	Hot rolled worked billet steel bars A-706	tonne	10	120,650	1,206,500	10	122,000	1,220,000	12.13	122,000	1,479,860	(13,500)
3b-15c	Steel doors as per design	Kg	60	260	15,600	60	180	10,800	0.00	180	-	4,800
3b-16c	Reinforced masonry of following (1:6)				-			0			-	-
a	150 mm thick	cum	18	9,500	171,000	18	9,800	176,400	0.00	9,800	-	(5,400)
b	100 mm thick	cum	9	10,500	94,500	9	12,600	113,400	6.63	12,600	83,538	(18,900)
3b-17c	12 mm thick 1:4 plaster	Sqm	292	575	167,900	292	500	146,000	262.80	500	131,400	21,900
3b-18c	20 mm thick 1:4 plaster	Sqm	262	650	170,300	262	550	144,100	235.80	550	129,690	26,200
3b-19c	20 mm thick 1:4 plaster	Sqm	96	675	64,800	96	600	57,600	0.00	600	-	7,200
3b-20c	Wooden doors	Sqm	6	17,000	102,000	6	4,000	24,000	6.00	4,000	24,000	78,000
3b-21c	Anodized alumunium ventilators	Sqm	4	12,500	50,000	4	5,000	20,000	4.00	5,000	20,000	30,000
3b-22c	75 mm thick class C concrete floor	Sqm	95	850	80,750	95	750	71,250	0.00	750	-	9,500
3b-23c	100 mm thick class D concrete floor	Sqm	125	925	115,625	125	600	75,000	0.00	600	-	40,625
3b-24c	Cement concrete skirting 100 high	Sqm	5	850	4,250	5	500	2,500	0.00	500	-	1,750
3b-25c	Porcelain tile floor	Sqm	10	3,200	32,000	10	2,400	24,000	9.00	2,400	21,600	8,000
3b-26c	Porcelain tile dado	Sqm	44	3,400	149,600	44	3,000	132,000	39.60	3,000	118,800	17,600
3b-27c	Vanity tops using 20 mm thick granite	Sqm	1	20,245	20,245	1	5,000	5,000	1.00	5,000	5,000	15,245
3b-28c	Two coats of hot bitumen 10/20	Sqm	145	520	75,400	145	270	39,150	70.56	270	19,051	36,250
3b-29c	Water proofing and build up roofing slab	Sqm	125	4,500	562,500	125	350	43,750	103.02	350	36,055	518,750
3b-30c	Crystallin waterproof slurry (Aquafin)	Sqm	96	1,200	115,200	96	300	28,800	42.56	300	12,768	86,400
3b-31c	25 mm thick polysterene sheet	Sqm	70	985	68,950	70	500	35,000	0.00	500	-	33,950

BRTS ABDUL SATTAR EDHI LINE (FORMERLY BRTS ORANGE LINE)
Package - 2 : M/s KNK Pvt. Ltd.
Comparative Statement

Code No	Description	Engineer's Estimate				Bill of Quantities (BOQ)			Current Work Done Status			
		Unit	Quantity	Rate	Amount (Rs) [A]	Quantity	Rate	Amount (Rs) [B]	Quantity	Rate	Amount (Rs) [C]	Difference [A-B]
3b-32c	Two layers of self adhesive membrane Hygrip	Sqm	96	2,425	232,800	96	600	57,600	98.24	600	58,944	175,200
3b-33c	Cast iron cover with frame (600x600 mm)	No	1	21,250	21,250	1	4,000	4,000	0.00	4,000	-	17,250
3b-34c	20 mm dia MS galvanized ladder rungs	No	10	720	7,200	10	1,000	10,000	16.00	1,000	16,000	(2,800)
3b-35c	Distemper paint to surface of ceiling	Sqm	115	250	28,750	115	450	51,750	69.00	450	31,050	(23,000)
3b-36c	Matt Enamel paint of approved make	Sqm	167	500	83,500	167	550	91,850	100.20	550	55,110	(8,350)
3b-37c	Weather resistant paint of approved make	Sqm	262	400	104,800	262	600	157,200	157.20	600	94,320	(52,400)
	Total				**5,438,555**			**4,248,100**			**3,501,270**	**1,190,455**
3b-1p	**Piping / Plumbing (Water Supply)**											
3b-1p	PPR cold and hot water pipes (PN20)											-
a	15 mm	RM	7	200	1,400	7	160	1,120		160	-	280
b	20 mm	RM	8	230	1,840	8	190	1,520		190	-	320
c	25 mm	RM	6	360	2,160	6	300	1,800		300	-	360
3b-2p	Bronze gate valve							0			-	-
a	25 mm	No	3	4,000	12,000	3	2,350	7,050		2,350	-	4,950
b	50 mm	No	1	11,000	11,000	1	12,500	12,500		12,500	-	(1,500)
3b-3p	CP brass bib tap (15 mm)	No	3	1,000	3,000	3	600	1,800		600	-	1,200
3b-4p	Stop cock brass chromium plated	No	4	1,200	4,800	4	900	3,600		900	-	1,200
3b-5p	Eletric water heater (5 gallons)	No	1	12,500	12,500	1	7,000	7,000		7,000	-	5,500
3b-6p	Asian water closet	No	3	8,500	25,500	3	8,000	24,000		8,000	-	1,500
3b-7p	Counter type wash basin	No	2	8,000	16,000	2	9,500	19,000		9,500	-	(3,000)
3b-8p	Imported glass mirror of Belgium	Sqm	2	400	800	2	11,500	23,000		11,500	-	(22,200)
3b-9p	Towel rail	No	1	2,000	2,000	1	1,150	1,150		1,150	-	850
3b-10p	Soap tray	No	1	1,850	1,850	1	800	800		800	-	1,050
3b-11p	uPVC soil waste and vent pipes (32 mm)	RM	2	450	900	2	420	840		420	-	60
b	75 mm	RM	8	840	6,720	8	1,500	12,000		1,500	-	(5,280)
c	100 mm	RM	8	1,310	10,480	8	1,950	15,600		1,950	-	(5,120)
3b-12p	uPVC floor drain (75 mm dia)	No	1	1,500	1,500	1	1,800	1,800		1,800	-	(300)
3b-13p	uPVC floor cleanout of following				-			0			-	-
a	75 mm	No	1	1,800	1,800	1	600	600		600	-	1,200
b	100 mm	No	1	2,000	2,000	1	750	750		750	-	1,250
3b-14p	Water level indicator	No	1	15,000	15,000	1	5,000	5,000		5,000	-	10,000

BRTS ABDUL SATTAR EDHI LINE (FORMERLY BRTS ORANGE LINE)
Package - 2 : M/s KNK Pvt. Ltd.
Comparative Statement

Code No	Description	Engineer's Estimate				Bill of Quantities (BOQ)			Current Work Done Status			
		Unit	Quantity	Rate	Amount (Rs) [A]	Quantity	Rate	Amount (Rs) [B]	Quantity	Rate	Amount (Rs) [C]	Difference [A-B]
3b-15p	Cast iron cover with frame (750x750 mm)	No	2	22,500	45,000	2	5,500	11,000		5,500	-	34,000
3b-16p	Galvanized MS ladder rungs for OHWT	No	9	650	5,850	9	380	3,420		380	-	2,430
3b-17p	GI U turn vent pipe (100 mm)	No	2	5,000	10,000	2	9,000	18,000		9,000	-	(8,000)
3b-18p	PE filling pipes (12.5 bars pressure)	RM	5	270	1,350	5	310	1,550		310	-	(200)
3b-19p	PE overflow pipe (12.5 bar pressure) (50 mm)	RM	1	270	270	1	400	400		400	-	(130)
3b-20p	Horizantal centrifugal pump (Q=85 US)	No	2	250,000	500,000	2	875,000	1,750,000		875,000	-	(1,250,000)
3b-21p	Seamless black steel pipe conforming A-53 (50 mm)	RM	5	2,000	10,000	5	2,400	12,000		2,400	-	(2,000)
3b-22p	Girder and pully block (0.5 ton)	No	1	90,000	90,000	1	20,000	20,000		20,000	-	70,000
3b-23p	Fiber glass water tank (500 gallons)	No	1	30,000	30,000	1	38,500	38,500		38,500	-	(8,500)
3b-24p	PE pipe (12.5 bars pressure)				-			0			-	-
a	25 mm	RM	6	90	540	6	88	528		88	-	12
b	50 mm	RM	1	270	270	1	270	270		270	-	-
	Total				**826,530**			**1,996,598**				**(1,170,068)**
	Electrical Items											
3b-1e	LT DB-RR	Job	1	99,800	99,800	1	42,000	42,000		42,000	-	57,800
3b-2e	Motor control MCC	Job	1	281,200	281,200	1	144,000	144,000		144,000	-	137,200
3b-3e	Following LED or compact light fixtures				-			0			-	-
a	A2	No	3	9,750	29,250	3	3,800	11,400		3,800	-	17,850
b	A3	No	8	7,500	60,000	8	3,800	30,400		3,800	-	29,600
c	A4	No	7	8,250	57,750	7	1,600	11,200		1,600	-	46,550
3b-4e	LT cables (3 core 6 sqmm PVC/PVC	RM	25	430	10,750	25	550	13,750		550	-	(3,000)
3b-5e	Wiring of light circuit	No	4	6,000	24,000	4	3,200	12,800		3,200	-	11,200
3b-6e	Wiring from light exhaust	No	19	3,500	66,500	19	1,200	22,800		1,200	-	43,700
3b-7e	Same as above but wiring point to point	No	9	2,500	22,500	9	700	6,300		700	-	16,200
3b-8e	Wiring of 16A	No	2	6,000	12,000	2	3,700	7,400		3,700	-	4,600
b	From outlet to outlet	No	5	3,500	17,500	5	1,100	5,500		1,100	-	12,000
3b-9e	Wiring from DB to outlet 16 A	No	1	8,000	8,000	1	6,000	6,000		6,000	-	2,000
3b-10e	Weather proof 16 A	No	7	1,500	10,500	7	750	5,250		750	-	5,250
3b-11e	100 mm of underground uPVC class D pipe	RM	6	1,410	8,460	6	3,000	18,000		3,000	-	(9,540)
3b-12e	Signle core PVC copper 6 sqmm	RM	25	120	3,000	25	150	3,750		150	-	(750)

BRTS ABDUL SATTAR EDHI LINE (FORMERLY BRTS ORANGE LINE)
Package - 2 : M/s KNK Pvt. Ltd.
Comparative Statement

Code No	Description	Engineer's Estimate				Bill of Quantities (BOQ)			Current Work Done Status			
		Unit	Quantity	Rate	Amount (Rs) [A]	Quantity	Rate	Amount (Rs) [B]	Quantity	Rate	Amount (Rs) [C]	Difference [A-B]
3b-13e	600x600x3 mm tin plated copper	No	2	40,000	80,000	2	2,800	5,600		2,800	-	74,400
3b-14e	Following size perforated GI sheet				-			0			-	-
a	100x50 mm	RM	5	1,020	5,100	5	1,200	6,000		1,200	-	(900)
b	150x50 mm	RM	10	1,250	12,500	10	1,700	17,000		1,700	-	(4,500)
3b-15e	56" sweep single phase 250 V ceiling fans	No	6	5,500	33,000	6	3,700	22,200		3,700	-	10,800
3b-16e	Load break switch (16 Amp SP&N+E)	No	1	5,500	5,500	1	2,200	2,200		2,200	-	3,300
3b-17e	8" dia single phase	No	3	4,500	13,500	3	2,000	6,000		2,000	-	7,500
3b-18e	20 mm dia PVC conduit	RM	5	73	365	5	100	500		100	-	(135)
3b-19e	Wiring of RJ45 telecom wall outlet from DB	No	2	6,475	12,950	2	3,800	7,600		3,800	-	5,350
3b-20e	CAT-6A UTP	No	2	1,383	2,766	2	1,200	2,400		1,200	-	366
3b-21e	Plastic white cover plate with sheet steel	No	2	369	738	2	500	1,000		500	-	(262)
3b-22e	20 mm dia PVC conduit	RM	20	73	1,460	20	100	2,000		100	-	(540)
3b-23e	1.5 sqmm fire resistant 2 core cable	RM	20	274	5,480	20	380	7,600		380	-	(2,120)
3b-24e	Inteligent addressable optical smoke/heat detector	No	1	12,464	12,464	1	6,400	6,400		6,400	-	6,064
3b-25e	Intelignet addressable manual call point	No	1	10,640	10,640	1	5,900	5,900		5,900	-	4,740
3b-26e	Loop powered addressable directional sound	No	1	14,820	14,820	1	7,500	7,500		7,500	-	7,320
3b-27e	Loop powered addressable control module	No	2	13,680	27,360	2	6,900	13,800		6,900	-	13,560
3b-28e	Loop powered monitor module	No	2	13,680	27,360	2	8,800	17,600		8,800	-	9,760
	Total				**977,213**			**471,850**			**-**	**505,363**
	Total Rest Area (Code 3b)				**7,242,298**			**6,716,548**			**3,501,270**	**525,750**
03c(i)	**Boundary Wall (Phase-I and II)**											
3c(i)-1c	Excavation in all kind of sub surface	cum	942	630	593,460	942	600	565,200	439.48	600	263,688	28,260
3c(i)-2c	Fill and backfill with selected materials	cum	733	200	146,600	733	330	241,890	26.01	330	8,583	(95,290)
3c(i)-3c	Hot rolled worked billet steel bars A-706	tonne	43	120,650	5,187,950	43	122,000	5,246,000	38.94	122,000	4,750,680	(58,050)
3c(i)-4c	Class E concrete using OPC	cum	64	6,500	416,000	64	10,000	640,000	42.69	10,000	426,900	(224,000)
3c(i)-5c	Class D concrete using OPC	cum	66	8,500	561,000	66	15,000	990,000	0.00	15,000	-	(429,000)
3c(i)-6c	Class B reinforced concrete in following				-			0			-	-
a	Foundations	cum	146	12,375	1,806,750	146	12,000	1,752,000	185.02	12,000	2,220,240	54,750

BRTS ABDUL SATTAR EDHI LINE (FORMERLY BRTS ORANGE LINE)
Package - 2 : M/s KNK Pvt. Ltd.
Comparative Statement

Code No	Description	Engineer's Estimate				Bill of Quantities (BOQ)			Current Work Done Status			
		Unit	Quantity	Rate	Amount (Rs) [A]	Quantity	Rate	Amount (Rs) [B]	Quantity	Rate	Amount (Rs) [C]	Difference [A-B]
b	Plinth beam	cum	63	14,000	882,000	63	13,000	819,000	123.28	13,000	1,602,640	63,000
c	Columns	cum	39	14,250	555,750	39	14,000	546,000	188.33	14,000	2,636,620	9,750
3c(i)-7c	Class B reinforced concrete	cum	36	14,500	522,000	36	15,000	540,000	25.08	15,000	376,200	(18,000)
3c(i)-8c	Precast fairfaced Class B reonforced concrete	cum	23	12,500	287,500	23	13,000	299,000	0.00	13,000	-	(11,500)
3c(i)-9c	Mild steel gate	Kg	3,024	260	786,240	3,024	180	544,320	1981.00	180	356,580	241,920
3c(i)-10c	150 mm thick reinforced block masonry	cum	192	9,500	1,824,000	192	9,800	1,881,600	88.84	9,800	870,632	(57,600)
3c(i)-11c	Two coats of hot bitumen grade 10/20	Sqm	1,838	520	955,760	1,838	270	496,260	899.51	270	242,868	459,500
3c(i)-12c	20 mm thick 1:4 plaster	Sqm	2,791	650	1,814,150	2,791	550	1,535,050	1146.14	550	630,377	279,100
3c(i)-13c	Weather resistant paint of approved make	Sqm	2,791	400	1,116,400	2,791	600	1,674,600	1958.40	600	1,175,040	(558,200)
	Total Boundary Wall (Phase-I and II)				**17,455,560**			**17,770,920**			**15,561,048**	**(315,360)**
3d	**STORE ROOM**											
3d-1c	Excavation in all kind of sub surface											
	0-2 m	cum	50	630	31,500	50	500	25,000	42.66	500	21,330	6,500
	2-4 meter depth	cum	2	830	1,660	2	600	1,200	2.14	600	1,284	460
3d-2c	Fill and backfill with selected materials	cum	40	200	8,000	40	330	13,200	29.94	330	9,880	(5,200)
3d-3c	150 mm thick	Sqm	70	550	38,500	70	300	21,000	5.98	300	1,794	17,500
3d-4c	100 mm thick	Sqm	25	450	11,250	25	280	7,000	0.00	280	-	4,250
3d-5c	Termite control treatment to surfaces	Sqm	95	140	13,300	95	270	25,650	21.33	270	5,759	(12,350)
3d-6c	Class E plain cement concrete using OPC	cum	5	6,500	32,500	5	10,000	50,000	2.14	10,000	21,400	(17,500)
3d-7c	Class D plain cement concrete using OPC	cum	4	8,500	34,000	4	15,000	60,000	0.00	15,000	-	(26,000)
3d-8c	Class D plain cement concrete using OPC	cum	3	9,500	28,500	3	15,000	45,000	0.00	15,000	-	(16,500)
3d-9c	Class B reinforced concrete				-			0			-	-
a	Foundations	cum	7	12,375	86,625	7	9,000	63,000	7.26	9,000	65,340	23,625
b	Plinth beam	cum	6	14,000	84,000	6	9,300	55,800	5.58	9,300	51,894	28,200
c	Columns	cum	2	14,250	28,500	2	9,500	19,000	2.81	9,500	26,695	9,500
3d-10c	Class B reinforced concrete				-			0			-	-
a	Columns	cum	3	14,500	43,500	3	13,000	39,000	1.76	13,000	22,880	4,500
b	Beam and lintel	cum	5	15,300	76,500	5	12,000	60,000	6.54	12,000	78,480	16,500
c	Slab and projections	cum	14	14,500	203,000	14	12,000	168,000	13.78	12,000	165,360	35,000
d	Purdi	cum	1	16,000	16,000	1	13,000	13,000	2.30	13,000	29,900	3,000

BRTS ABDUL SATTAR EDHI LINE (FORMERLY BRTS ORANGE LINE)
Package - 2 : M/s KNK Pvt. Ltd.
Comparative Statement

Code No	Description	Engineer's Estimate				Bill of Quantities (BOQ)			Current Work Done Status			
		Unit	Quantity	Rate	Amount (Rs) [A]	Quantity	Rate	Amount (Rs) [B]	Quantity	Rate	Amount (Rs) [C]	Difference [A-B]
3d-11c	Precast fairfaced Class B reonforced concrete	cum	1	15,000	15,000	1	14,000	14,000	0.00	14,000	-	1,000
3d-12c	Hot rolled worked billet steel bars A-706	tonne	5	120,650	603,250	5	122,000	610,000	3.60	122,000	439,200	(6,750)
3d-13c	Steel doors as per design	Kg	110	260	28,600	110	180	19,800	0.00	180	-	8,800
3d-14c	Reinforced masonry of following (1:6)				-			0			-	-
a	150 mm thick	cum	10	9,500	95,000	10	9,800	98,000	10.59	9,800	103,782	(3,000)
b	100 mm thick	cum	2	10,500	21,000	2	12,600	25,200	1.03	12,600	12,978	(4,200)
3d-15c	12 mm thick 1:4 plaster	Sqm	165	575	94,875	165	500	82,500	148.50	500	74,250	12,375
3d-16c	20 mm thick 1:4 plaster	Sqm	160	650	104,000	160	550	88,000	144.00	550	79,200	16,000
3d-17c	Anodized alumunium ventilators	Sqm	5	12,500	62,500	5	5,000	25,000	4.50	5,000	22,500	37,500
3d-18c	75 mm thick class C concrete floor	Sqm	70	850	59,500	70	750	52,500	56.00	750	42,000	7,000
3d-19c	100 mm thick class D	Sqm	70	925	64,750	70	600	42,000	56.00	600	33,600	22,750
3d-20c	Cement concrete skirting 100 high	Sqm	3	850	2,550	3	500	1,500	0.00	500	-	1,050
3d-21c	Two coat of hot rolled bitumen	Sqm	112	520	58,240	112	270	30,240	0.00	270	-	28,000
3d-22c	Water proofing and build up roofing slab	Sqm	92	4,500	414,000	92	350	32,200	0.00	350	-	381,800
3d-23c	Distemper paint to surface of ceiling	Sqm	70	250	17,500	70	450	31,500	124.66	450	56,095	(14,000)
3d-24c	Matt Enamel paint of approved make	Sqm	100	500	50,000	100	550	55,000	60.00	550	33,000	(5,000)
3d-25c	Waether resistant paint	Sqm	160	400	64,000	160	600	96,000	96.00	600	57,600	(32,000)
	Total				**2,492,100**			**1,969,290**			**1,456,202**	**522,810**
	Electrical Items											
3d-1e	LT DB SR	Job	1	95,000	95,000	1	95,000	95,000		95,000	-	-
3d-2e	LED light Type A3	No	8	7,500	60,000	8	3,800	30,400		3,800	-	29,600
3d-3e	Wiring of light circuit	No	1	6,000	6,000	1	3,200	3,200		3,200	-	2,800
3d-4e	Wiring from light exhaust	No	4	3,500	14,000	4	1,200	4,800		1,200	-	9,200
3d-5e	Same as above but wiring point to point	No	4	2,500	10,000	4	800	3,200		800	-	6,800
3d-6e	Wiring of 16A	No	2	6,000	12,000	2	3,700	7,400		3,700	-	4,600
b	From outlet to outlet	No	2	3,500	7,000	2	1,200	2,400		1,200	-	4,600
3d-7e	16 Amps 250 volt	No	3	1,000	3,000	3	1,000	3,000		1,000	-	-
3d-8e	Weather proof 13 A	No	1	2,000	2,000	1	1,200	1,200		1,200	-	800
3d-9e	600x600x3 mm tin plated copper	No	1	40,000	40,000	1	28,000	28,000		28,000	-	12,000
3d-10e	20 mm dia PVC conduit	RM	10	73	730	10	100	1,000		100	-	(270)
3d-11e	Wiring of RJ45 telecom wall outlet from DB	No	1	13,875	13,875	1	4,300	4,300		4,300	-	9,575

BRTS ABDUL SATTAR EDHI LINE (FORMERLY BRTS ORANGE LINE)
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Comparative Statement

Code No	Description	Engineer's Estimate				Bill of Quantities (BOQ)			Current Work Done Status			
		Unit	Quantity	Rate	Amount (Rs) [A]	Quantity	Rate	Amount (Rs) [B]	Quantity	Rate	Amount (Rs) [C]	Difference [A-B]
3d-12e	Plastic white cover plate with sheet steel	No	1	369	369	1	500	500		500	-	(131)
3d-13e	Cat-6A RJ 45	No	1	1,383	1,383	1	1,000	1,000		1,000	-	383
	Total				**265,357**			**185,400**			**-**	**79,957**
	Total Store Room (Code 3d)				**2,757,457**			**2,154,690**			**1,456,202**	**602,767**
03e	GUARD ROOMS											
3e-1c	Excavation in all kinds of sub surfaces											-
a	0-2 m	cum	24	630	15,120	24	500	12,000	29.64	500	14,820	3,120
b	2-4 meter depth	cum	1	830	830	1	600	600	1.48	600	888	230
3e-2c	Fill and backfill with selected materials	cum	20	200	4,000	20	330	6,600	15.90	330	5,247	(2,600)
3e-3c	150 mm thick compacted stone soling	Sqm	23	550	12,650	23	300	6,900	0.00	300	-	5,750
3e-4c	100 mm thick compacted stone soling	Sqm	17	450	7,650	17	280	4,760	0.00	280	-	2,890
3e-5c	Termite control treatment to surfaces	Sqm	40	140	5,600	40	270	10,800	12.82	270	3,461	(5,200)
3e-6c	Class E plain cement concrete using OPC	cum	3	6,500	19,500	3	10,000	30,000	2.17	10,000	21,700	(10,500)
3e-7c	Class D plain cement concrete using OPC	cum	3	8,500	25,500	3	15,000	45,000	0.00	15,000	-	(19,500)
3e-8c	Class D plain cement concrete using OPC	cum	2	9,500	19,000	2	15,000	30,000	0.00	15,000	-	(11,000)
3e-9c	Class B reinforced concrete in following				-			0			-	-
a	Foundations	cum	3	12,375	37,125	3	9,000	27,000	3.02	9,000	27,180	10,125
b	Plinth beam	cum	4	14,000	56,000	4	9,300	37,200	3.60	9,300	33,480	18,800
c	Columns	cum	2	14,250	28,500	2	9,500	19,000	0.88	9,500	8,360	9,500
3e-10c	Class B reinforced concrete in following				-			0			-	-
a	Columns	cum	3	14,500	43,500	3	13,000	39,000	1.57	13,000	20,410	4,500
b	Beam and lintel	cum	4	15,300	61,200	4	12,000	48,000	3.93	12,000	47,160	13,200
c	Slab and projections	cum	21	14,500	304,500	21	12,000	252,000	4.03	12,000	48,360	52,500
d	Purdi	cum	1	16,000	16,000	1	13,000	13,000	1.60	13,000	20,800	3,000
3e-11c	Precast fairfaced Class B reonforced concrete	cum	1	15,000	15,000	1	14,000	14,000	0.00	14,000	-	1,000
3e-12c	Hot rolled worked billet steel bars A-706	tonne	3	120,650	361,950	3	122,000	366,000	2.44	122,000	297,680	(4,050)
3e-13c	Reinforced masonry of following (1:6)				-			0			-	-
a	150 mm thick hollow block	cum	8	9,500	76,000	8	9,800	78,400	2.06	9,800	20,188	(2,400)
b	100 mm thick solid block	cum	1	10,500	10,500	1	12,600	12,600	3.31	12,600	41,706	(2,100)

BRTS ABDUL SATTAR EDHI LINE (FORMERLY BRTS ORANGE LINE)
Package - 2 : M/s KNK Pvt. Ltd.
Comparative Statement

Code No	Description	Engineer's Estimate				Bill of Quantities (BOQ)			Current Work Done Status			
		Unit	Quantity	Rate	Amount (Rs) [A]	Quantity	Rate	Amount (Rs) [B]	Quantity	Rate	Amount (Rs) [C]	Difference [A-B]
3e-14c	12 mm thick 1:4 plaster	Sqm	100	575	57,500	100	500	50,000	50.00	500	25,000	7,500
3e-15c	20 mm thick 1:4 plaster	Sqm	145	650	94,250	145	550	79,750	72.50	550	39,875	14,500
3e-16c	Wooden door of following types				-			0			-	-
a	D1	Sqm	2	17,000	34,000	2	4,000	8,000	2.00	4,000	8,000	26,000
b	D2	Sqm	2	17,000	34,000	2	5,000	10,000	2.00	5,000	10,000	24,000
3e-17c	Anodized alumunium windows				-			0			-	-
a	W1	Sqm	2	12,500	25,000	2	5,000	10,000	2.00	5,000	10,000	15,000
b	W2	Sqm	1	12,500	12,500	1	5,000	5,000	1.00	5,000	5,000	7,500
c	V1	Sqm	1	12,500	12,500	1	5,000	5,000	1.00	5,000	5,000	7,500
3e-18c	100 mm thick Class D	Sqm	23	925	21,275	23	600	13,800	20.70	600	12,420	7,475
3e-19c	Porcelain tile floor 300x300 mm	Sqm	6	3,200	19,200	6	2,400	14,400	3.00	2,400	7,200	4,800
3e-20c	Porcelain tile dado	Sqm	28	3,400	95,200	28	3,000	84,000	14.00	3,000	42,000	11,200
3e-21c	Porcelain tile 600x600 mm	Sqm	17	3,600	61,200	17	2,600	44,200	8.50	2,600	22,100	17,000
3e-22c	Porcelain tile skirting 100 mm high	Sqm	2	3,200	6,400	2	2,400	4,800	1.00	2,400	2,400	1,600
3e-23c	Vanity tops using 20 mm thick granite	Sqm	1	20,245	20,245	1	5,000	5,000	0.50	5,000	2,500	15,245
3e-24c	Two coats of hot bitumen	Sqm	44	520	22,880	44	270	11,880	78.48	270	21,190	11,000
3e-25c	Water proofing and build up roofing slab	Sqm	23	4,500	103,500	23	350	8,050	17.33	350	6,066	95,450
3e-26c	Distemper paint to surface of ceiling	Sqm	23	250	5,750	23	450	10,350	11.50	450	5,175	(4,600)
3e-27c	Matt Enamel paint of approved make	Sqm	66	500	33,000	66	550	36,300	33.00	550	18,150	(3,300)
3e-28c	Weather resistant paint of approved make	Sqm	145	400	58,000	145	600	87,000	72.50	600	43,500	(29,000)
	Total				**1,836,525**			**1,540,390**			**897,016**	**296,135**
	Plumbing Items											
3e-1p	PPR cold and hot water (PN20) (15 mm)	RM	16	200	3,200	16	160	2,560		160	-	640
3e-2p	Bronze gate valve				-			0			-	-
a	15 mm	No	6	2,500	15,000	6	2,000	12,000		2,000	-	3,000
b	50 mm	No	2	11,000	22,000	2	12,500	25,000		12,500	-	(3,000)
3e-3p	CP brass bib tap (15 mm)	No	2	1,000	2,000	2	600	1,200		600	-	800
3e-4p	Stop cock brass chromium plated (15 mm)	No	4	1,200	4,800	4	800	3,200		800	-	1,600
3e-5p	Asian water closet	No	2	8,500	17,000	2	8,000	16,000		8,000	-	1,000
3e-6p	Counter type wash basin	No	2	8,000	16,000	2	9,500	19,000		9,500	-	(3,000)
3e-7p	Imported glass mirror of Belgium	Sqm	2	400	800	2	11,500	23,000		11,500	-	(22,200)
3e-8p	Towel rail	No	2	2,000	4,000	2	1,150	2,300		1,150	-	1,700

BRTS ABDUL SATTAR EDHI LINE (FORMERLY BRTS ORANGE LINE)
Package - 2 : M/s KNK Pvt. Ltd.
Comparative Statement

Code No	Description	Engineer's Estimate				Bill of Quantities (BOQ)			Current Work Done Status			
		Unit	Quantity	Rate	Amount (Rs) [A]	Quantity	Rate	Amount (Rs) [B]	Quantity	Rate	Amount (Rs) [C]	Difference [A-B]
3e-9p	Soap tray	No	2	1,850	3,700	2	800	1,600		800	-	2,100
3e-10p	uPVC soil waste and vent pipe (32 mm)	RM	4	450	1,800	4	420	1,680		420	-	120
b	75 mm	RM	10	840	8,400	10	1,500	15,000		1,500	-	(6,600)
c	100 mm	RM	10	1,310	13,100	10	1,950	19,500		1,950	-	(6,400)
3e-11p	uPVC floor drain (75 mm)	No	2	1,500	3,000	2	1,800	3,600		1,800	-	(600)
3e-12p	uPVC floor cleanout (75 mm)	No	2	1,800	3,600	2	600	1,200		600	-	2,400
3e-13p	Fiber glass water tank (500 gallons)	No	2	30,000	60,000	2	38,500	77,000		38,500	-	(17,000)
3e-14p	PE pipe (12.5 bars pressure) (15 mm)	RM	24	60	1,440	24	68	1,632		68	-	(192)
b	50 mm	RM	2	270	540	2	270	540		270	-	-
	Total				**180,380**			**226,012**			**-**	**(45,632)**
	Electrical Items											
3e-1e	Following LT distribution board										-	-
a	DB GR1	Job	1	66,000	66,000	1	40,000	40,000		40,000	-	26,000
b	DB GR2	Job	1	66,000	66,000	1	41,000	41,000		41,000	-	25,000
3e-2e	Following LED or compact light fixtures				-			0			-	-
a	A3	No	6	7,500	45,000	6	3,800	22,800		3,800	-	22,200
b	A4	No	2	8,250	16,500	2	3,800	7,600		3,800	-	8,900
c	T2	No	2	15,000	30,000	2	13,000	26,000		13,000	-	4,000
3e-3e	Wiring of light circuit from DB to points	No	2	6,000	12,000	2	3,200	6,400		3,200	-	5,600
3e-4e	Wiring from light exhaust	No	12	3,500	42,000	12	1,200	14,400		1,200	-	27,600
3e-5e	Same as above but wiring point to point	No	2	2,500	5,000	2	750	1,500		750	-	3,500
3e-6e	Wiring of 16A				-			0			-	-
a	From DB to outlet	No	4	6,000	24,000	4	3,200	12,800		3,200	-	11,200
b	From outlet to outlet	No	6	3,500	21,000	6	1,100	6,600		1,100	-	14,400
3e-7e	16 Amp 250 volt	No	6	1,000	6,000	6	800	4,800		800	-	1,200
3e-8e	Weather proof 13 A	No	4	2,000	8,000	4	900	3,600		900	-	4,400
3e-9e	600x600x3 mm tin plated copper	No	2	40,000	80,000	2	27,000	54,000		27,000	-	26,000
3e-10e	14" dia single phase 250 V wall bracket louver fan	No	2	4,500	9,000	2	1,900	3,800		1,900	-	5,200
3e-11e	20 mm dia PVC conduit	RM	12	73	876	12	100	1,200		100	-	(324)
3e-12e	Wiring of RJ45 telecom wall outlet from DB	No	4	4,450	17,800	4	3,300	13,200		3,300	-	4,600

BRTS ABDUL SATTAR EDHI LINE (FORMERLY BRTS ORANGE LINE)
Package - 2 : M/s KNK Pvt. Ltd.
Comparative Statement

Code No	Description	Engineer's Estimate				Bill of Quantities (BOQ)			Current Work Done Status			
		Unit	Quantity	Rate	Amount (Rs) [A]	Quantity	Rate	Amount (Rs) [B]	Quantity	Rate	Amount (Rs) [C]	Difference [A-B]
3e-13e	Plastic white cover plate with sheet steel	No	4	369	1,476	4	500	2,000		500	-	(524)
3e-14e	Cat-6A UTP RJ 45	No	4	1,383	5,532	4	1,200	4,800		1,200	-	732
3e-15e	10 pair IDC with mounting frame	No	4	5,320	21,280	4	6,400	25,600		6,400	-	(4,320)
3e-16e	16 SWG telephone junction box	No	1	12,844	12,844	1	4,300	4,300		4,300	-	8,544
3e-17e	Addressable LCD repeater penal	No	1	200,640	200,640	1	133,000	133,000		133,000	-	67,640
	Total				690,948			429,400			-	261,548
	Total Guard Room (Code 3e)				2,707,853			2,195,802			897,016	512,051
3f	**Watch Tower**											
3f-1c	Excavation in all kinds of sub surfaces (0-2 m)	cum	17	630	10,710	17	500	8,500	6.92	500	3,460	2,210
b	2 - 4 meter	cum	1	830	830	1	600	600	0.35	600	210	230
3f-2c	Fill and backfill with selected materials	cum	15	200	3,000	15	330	4,950	4.84	330	1,597	(1,950)
3f-3c	150 mm thick compacted stone soling	Sqm	35	550	19,250	35	300	10,500	0.00	300	-	8,750
b	100 mm thick compacted stone soling	Sqm	15	450	6,750	15	280	4,200	0.00	280	-	2,550
3f-5c	Termite control treatment to surfaces	Sqm	50	140	7,000	50	270	13,500	3.46	270	934	(6,500)
3f-6c	Class E plain cement concrete using OPC	cum	1	120,650	120,650	1	10,000	10,000	0.70	10,000	6,960	110,650
3f-7c	Class D plain cement concrete using OPC	cum	2	9,500	19,000	2	15,000	30,000	0.00	15,000	-	(11,000)
3f-8c	Class B reinforced concrete in following				-			0			-	-
a	Foundations	cum	3	12,375	37,125	3	9,000	27,000	2.66	9,000	23,940	10,125
b	Columns	cum	2	14,250	28,500	2	9,300	18,600	2.97	9,300	27,593	9,900
3f-9c	Class B reinforced concrete in following				-			0			-	-
a	Columns	cum	4	14,500	58,000	4	9,500	38,000	0.00	9,500	-	20,000
b	Beam and lintel	cum	5	15,300	76,500	5	12,000	60,000	0.00	12,000	-	16,500
c	Slab and projections	cum	5	14,500	72,500	5	12,000	60,000	0.00	12,000	-	12,500
d	Parapet wall	cum	4	16,000	64,000	4	13,000	52,000	0.00	13,000	-	12,000
3f-10c	Precast fairfaced Class B reonforced concrete	cum	1	15,000	15,000	1	14,000	14,000	0.00	14,000	-	1,000
3f-11c	Hot rolled worked billet steel bars ASTM-A615	tonne	3	120,650	361,950	3	122,000	366,000	0.18	122,000	21,960	(4,050)
3f-12c	20 mm thick 1:4 cement sand plaster (exterior)	Sqm	66	650	42,900	66	550	36,300	0.00		-	6,600
3f-13c	Dana plaster to specified surfaces	Sqm	25	700	17,500	25	700	17,500	0.00	25	-	-

BRTS ABDUL SATTAR EDHI LINE (FORMERLY BRTS ORANGE LINE)
Package - 2 : M/s KNK Pvt. Ltd.
Comparative Statement

Code No	Description	Engineer's Estimate				Bill of Quantities (BOQ)			Current Work Done Status			
		Unit	Quantity	Rate	Amount (Rs) [A]	Quantity	Rate	Amount (Rs) [B]	Quantity	Rate	Amount (Rs) [C]	Difference [A-B]
3f-14c	75 mm thick class C cement concrete floor	Sqm	13	850	11,050	13	750	9,750	11.70	750	8,775	1,300
3f-15c	100 mm thick class D cement concrete	Sqm	35	925	32,375	35	600	21,000	31.50	600	18,900	11,375
3f-16c	Two coats of hot bitumen grade 10/20	Sqm	40	520	20,800	40	270	10,800	13.30	270	3,591	10,000
3f-17c	Water proofing and built up roofing	Sqm	35	4,500	157,500	35	350	12,250	31.50	350	11,025	145,250
3f-18c	Weather resistant paint of approved make	Sqm	66	400	26,400	66	600	39,600	59.40	600	35,640	(13,200)
	Total				**1,209,290**			**865,050**			**164,586**	**344,240**
	Electrical Works											
3f-1e	LT distribution boards as per single line diagram											-
a	DB-WT-1	Job	1	66,000	66,000	1	30,000	30,000		30,000	-	36,000
b	DB-WT-2	Job	1	66,000	66,000	1	30,000	30,000		30,000	-	36,000
c	DB-WT-3	Job	1	66,000	66,000	1	30,000	30,000		30,000	-	36,000
3f-2e	Following LED or compact light				-			0			-	-
a	A3	No	6	7,500	45,000	6	3,800	22,800		3,800	-	22,200
b	T2	No	3	150,000	450,000	3	12,800	38,400		12,800	-	411,600
3f-3e	Wiring of light circuit from DB to points	No	3	6,000	18,000	3	3,200	9,600		3,200	-	8,400
3f-4e	Wiring from light from to switch	No	9	3,500	31,500	9	1,200	10,800		1,200	-	20,700
3f-5e	Wiring of 16A				-			0			-	-
a	From DB to outlet	No	6	6,000	36,000	6	3,800	22,800		3,800	-	13,200
b	From outlet to outlet	No	9	3,500	31,500	9	1,100	9,900		1,100	-	21,600
3f-6e	16 Amp 250 volt	No	6	1,000	6,000	6	1,000	6,000		1,000	-	-
3f-7e	Weather proof 13 amp 250 volts, spur socket outlet with sheet steel back box and all acc.	No	9	2,000	18,000	9	600	5,400		600	-	12,600
3f-8e	50 mm (internal dia) of underground uPVC class D pipes	RM	25	425	10,625	25	700	17,500		700	-	(6,875)
3f-9e	600 mm x 600 mm x 3 mm tin plated copper plate type	No	3	40,000	120,000	3	28,000	84,000		28,000	-	36,000
3f-10e	20 mm dia PVC condiuts with pull wire	RM	30	73	2,190	30	100	3,000		100	-	(810)
3f-11e	Plastic white cover plate with sheet steel back box	No	9	369	3,321	9	500	4,500		500	-	(1,179)
	Total				**970,136**			**324,700**			**-**	**645,436**
	Total Watch Tower (Code 3f)				**2,179,426**			**1,189,750**			**164,586**	**989,676**

BRTS ABDUL SATTAR EDHI LINE (FORMERLY BRTS ORANGE LINE)
Package - 2 : M/s KNK Pvt. Ltd.
Comparative Statement

Code No	Description	Engineer's Estimate				Bill of Quantities (BOQ)			Current Work Done Status			
		Unit	Quantity	Rate	Amount (Rs) [A]	Quantity	Rate	Amount (Rs) [B]	Quantity	Rate	Amount (Rs) [C]	Difference [A-B]
3g	**Storm Water Drainage**											
3g-1c	Excavation of trenches in all kind of sub surface	cum	20	450	9,000	20	550	11,000		550	-	(2,000)
3g-2c	Fill and backfill with selected materials	cum	4	200	800	4	400	1,600		400	-	(800)
3g-3c	Class E plain cement concrete using OPC	cum	2	6,500	13,000	2	10,000	20,000		10,000	-	(7,000)
3g-4c	Class B fairfaced concrete using OPC				-			0			-	-
a	Base slab	cum	2	12,375	24,750	2	9,500	19,000		9,500	-	5,750
b	Walls	cum	6	14,750	88,500	6	11,000	66,000		11,000	-	22,500
c	Top slab	cum	3	13,450	40,350	3	11,000	33,000		11,000	-	7,350
3g-5c	Class B reinforced cement concrete	cum	2	14,500	29,000	2	11,000	22,000		11,000	-	7,000
3g-6c	Hot rolled worked billet steel bars A-706	tonne	1	120,650	120,650	1	122,000	122,000		122,000	-	(1,350)
3g-7c	Structural steel comprising angles	Kg	50	300	15,000	50	180	9,000		180	-	6,000
3g-8c	Two coats of hot bitumen	Sqm	36	520	18,720	36	270	9,720		270	-	9,000
3g-9c	Cast iron medium duty cover	No	2	21,250	42,500	2	3,000	6,000		3,000	-	36,500
3g-10c	20 mm dia MS galvanized ladder rungs	No	5	720	3,600	5	1,000	5,000		1,000	-	(1,400)
3g-11c	Cast iron heavy duty channel grating	Kg	240	350	84,000	240	200	48,000		200	-	36,000
	Total Storm Water (Code 3g)				**489,870**			**372,320**				**117,550**
3h-1c	**Pavement (Phase-I)**											
3h-1c	Excavation of all kinds of sub surface	cum	4,605	630	2,901,150	4,605	400	1,842,000	0.00	400	-	1,059,150
3h-2c	Selected earth fill i/c compaction 95%	cum	1,880	1,200	2,256,000	1,880	1,200	2,256,000	12742.00	1,200	15,290,400	-
3h-3c	Aggrgate sub base coarse 150 mm thick	cum	1,323	1,225	1,620,675	1,323	1,800	2,381,400	1430.63	1,800	2,575,134	(760,725)
3h-4c	Aggregate base coarse 150 mm thick	cum	1,323	1,750	2,315,250	1,323	2,200	2,910,600	1430.63	2,200	3,147,386	(595,350)
3h-5c	Precast class B fairfaced kerb stone	RM	390	1,250	487,500	390	1,300	507,000	0.00	1,300	-	(19,500)
3h-6c	Precast concrete paving tiles	Sqm	390	2,400	936,000	390	900	351,000	0.00	900	-	585,000
3h-7c	Precast concrete paving block	Sqm	150	2,600	390,000	150	1,100	165,000	9900.00	1,100	10,890,000	225,000
3h-8c	Providing and applying traffic lane marking	Sqm	62	1,050	65,100	62	850	52,700	0.00	850	-	12,400
	Total				**10,971,675**			**10,465,700**			**31,902,920**	**505,975**
	Electrical Works											
3h-1e	Following LT outdoor DB										-	-
a	LTOD-5	Job	1	109,000	109,000	1	31,000	31,000	0.00	31,000	-	78,000
b	LTOD-6	Job	1	167,000	167,000	1	41,300	41,300	0.00	41,300	-	125,700

BRTS ABDUL SATTAR EDHI LINE (FORMERLY BRTS ORANGE LINE)
Package - 2 : M/s KNK Pvt. Ltd.
Comparative Statement

Code No	Description	Engineer's Estimate				Bill of Quantities (BOQ)			Current Work Done Status			
		Unit	Quantity	Rate	Amount (Rs) [A]	Quantity	Rate	Amount (Rs) [B]	Quantity	Rate	Amount (Rs) [C]	Difference [A-B]
c	LTOD-7	Job	1	109,000	109,000	1	41,300	41,300	0.00	41,300	-	67,700
3h-2e	Philips or approved lights (T3)	No	17	16,000	272,000	17	17,000	289,000	0.00	17,000	-	(17,000)
3h-3e	Following type of single core copper cables				-			0			-	-
a	3.5 core 35 sqmm	RM	155	1,750	271,250	155	2,100	325,500	104.00	2,100	218,400	(54,250)
b	3.5 core 240 sqmm	RM	290	11,450	3,320,500	290	12,000	3,480,000	42.00	12,000	504,000	(159,500)
c	4 core 6 sqmm	RM	95	570	54,150	95	700	66,500	63.00	700	44,100	(12,350)
d	4 core 10 sqmm	RM	1,390	925	1,285,750	1,390	1,000	1,390,000	734.00	1,000	734,000	(104,250)
e	4 core 16 sqmm	RM	70	935	65,450	70	900	63,000	36.00	900	32,400	2,450
f	4 core 95 sqmm	RM	190	5,200	988,000	190	5,000	950,000	37.00	5,000	185,000	38,000
3h-4e	Wiring of 10 m high area lighting	No	17	5,700	96,900	17	3,800	64,600	0.00	3,800	-	32,300
3h-5e	Following sizes of underground uPVC Class D				-			0	0.00		-	-
a	150 mm	RM	205	2,400	492,000	205	2,600	533,000	0.00	2,600	-	(41,000)
b	100mm	RM	3,030	1,610	4,878,300	3,030	1,100	3,333,000	2310.00	1,100	2,541,000	1,545,300
c	50 mm	RM	30	410	12,300	30	400	12,000	38.50	400	15,400	300
3h-6e	Following sizes of single core PVC copper (6 sqmm)	RM	95	120	11,400	95	150	14,250	0.00	150	-	(2,850)
b	10 sqmm	RM	1,390	200	278,000	1,390	200	278,000	0.00	200	-	-
c	16 sqmm	RM	220	300	66,000	220	300	66,000	0.00	300	-	-
d	50 sqmm	RM	665	885	588,525	665	700	465,500	0.00	700	-	123,025
3h-7e	600x600x3 mm tin plated copper	No	3	40,000	120,000	3	2,800	8,400	0.00	2,800	-	111,600
3h-8e	19 mm dia 3 m long copper cladded steel rod	No	3	25,000	75,000	3	28,000	84,000	0.00	28,000	-	(9,000)
3h-9e	Following hot dipped galvanized poles				-			0	0.00		-	-
a	15 m	No	2	120,000	240,000	2	60,000	120,000	0.00	60,000	-	120,000
b	15 m	No	1	125,000	125,000	1	75,000	75,000	0.00	75,000	-	50,000
3h-10e	Following size RCC manhole				-			0	0.00		-	-
a	MH-A	No	13	84,800	1,102,400	13	4,000	52,000	0.00	4,000	-	1,050,400
b	MH-B	No	8	90,000	720,000	8	4,000	32,000	0.00	4,000	-	688,000
3h-11e	40A TP&N+E load break switches	No	2	11,500	23,000	2	7,000	14,000	0.00	7,000	-	9,000
3h-12e	20 pair 0.6 mm dia telephone bracket cable	RM	210	540	113,400	210	500	105,000	0.00	500	-	8,400
3h-13e	1.5 sqmm fire resistant 2 core cable	RM	810	274	221,940	810	400	324,000	0.00	400	-	(102,060)
3h-14e	50 mm dia of underground Class D uPVC pipe	RM	990	374	370,260	990	400	396,000	0.00	400	-	(25,740)
3h-15e	Pull box of appropriate size	No	1	10,000	10,000	1	3,800	3,800	0.00	3,800	-	6,200

BRTS ABDUL SATTAR EDHI LINE (FORMERLY BRTS ORANGE LINE)
Package - 2 : M/s KNK Pvt. Ltd.
Comparative Statement

Code No	Description	Engineer's Estimate				Bill of Quantities (BOQ)			Current Work Done Status			
		Unit	Quantity	Rate	Amount (Rs) [A]	Quantity	Rate	Amount (Rs) [B]	Quantity	Rate	Amount (Rs) [C]	Difference [A-B]
3h-16e	RCC handhole of 600x600x600 mm	Job	23	28,471	654,833	23	3,500	80,500	18.00	3,500	63,000	574,333
	Total				**16,841,358**			**12,738,650**			**4,337,300**	**4,102,708**
3h	**Pavement (Phase-II)**											
3h-1c	Excavation of all kinds of sub surface	cum	1,565	630	985,950	1,565	400	626,000	0.00	400	-	359,950
3h-2c	Selected earth fill i/c compaction 95%	cum	640	1,200	768,000	640	1,200	768,000	1769.38	1,200	2,123,256	-
3h-3c	Aggregate base coarse 150 mm thick	cum	450	1,225	551,250	450	1,800	810,000	279.38	1,800	502,884	(258,750)
3h-4c	Aggregate base coarse 150 mm thick	cum	450	1,750	787,500	450	2,200	990,000	279.38	2,200	614,636	(202,500)
3h-5c	Precast class B fairfaced kerb stone	RM	136	1,250	170,000	136	1,300	176,800	0.00	1,300	-	(6,800)
3h-6c	Precast concrete paving tiles	Sqm	136	2,400	326,400	136	900	122,400	0.00	900	-	204,000
3h-7c	Precast concrete paving tile	Sqm	65	2,600	169,000	65	1,100	71,500	1862.50	1,100	2,048,750	97,500
3h-8c	Providing and applying traffic lane marking	Sqm	22	1,050	23,100	22	850	18,700	0.00	850	-	4,400
	Total				**3,781,200**			**3,583,400**			**5,289,526**	**197,800**
	Electrical Works											
3h-1e	Following LT outdoor DB										-	-
a	LTOD-8	Job	1	109,000	109,000	1	47,000	47,000	0.00	47,000	-	62,000
b	LTOD-9	Job	1	109,000	109,000	1	47,000	47,000	0.00	47,000	-	62,000
3h-2e	Philips or approved lights (T3)	No	9	16,000	144,000	9	17,000	153,000	0.00	17,000	-	(9,000)
3h-3e	Single core/multi core PVC pipe (4 core-10 sqmm)	RM	345	925	319,125	345	850	293,250	0.00	850	-	25,875
3h-4e	Wiring of 15 m high area lighting	No	9	5,700	51,300	9	3,800	34,200	0.00	3,800	-	17,100
3h-5e	Following sizes of underground uPVC Class D				-			0	0.00		-	-
a	100 mm dia	RM	60	1,610	96,600	60	1,200	72,000	0.00	1,200	-	24,600
b	50 mm dia	RM	10	410	4,100	10	600	6,000	0.00	600	-	(1,900)
3h-6e	Following size of single core (10 sqmm)	RM	345	200	69,000	345	200	69,000	0.00	200	-	-
3h-7e	600x600x3 mm tin plated copper	No	2	40,000	80,000	2	28,000	56,000	0.00	28,000	-	24,000
3h-8e	19 mm dia 3 m long copper cladded steel rod	No	2	25,000	50,000	2	26,000	52,000	0.00	26,000	-	(2,000)
3h-9e	Following hot dipped galvanized poles				-			0	0.00		-	-
a	15 m high	No	1	120,000	120,000	1	69,000	69,000	0.00	69,000	-	51,000
b	15 m high	No	1	120,000	120,000	1	70,000	70,000	0.00	70,000	-	50,000
3h-10e	RCC manhole Type MH-A	No	3	84,800	254,400	3	35,000	105,000	0.00	35,000	-	149,400
3h-11e	40A TP&N+E load break switches	No	1	11,500	11,500	1	5,000	5,000	0.00	5,000	-	6,500
	Total				**1,538,025**			**1,078,450**			**-**	**459,575**

BRTS ABDUL SATTAR EDHI LINE (FORMERLY BRTS ORANGE LINE)
Package - 2 : M/s KNK Pvt. Ltd.
Comparative Statement

Code No	Description	Engineer's Estimate				Bill of Quantities (BOQ)			Current Work Done Status			
		Unit	Quantity	Rate	Amount (Rs) [A]	Quantity	Rate	Amount (Rs) [B]	Quantity	Rate	Amount (Rs) [C]	Difference [A-B]
	Total Pavement (Code 3h)				**33,132,258**			**27,866,200**			**41,529,746**	**5,266,058**
3j	**Water Supply**											
3j-1c	Excavation of trenches in all kind of sub surfaces	cum	11	630	6,930	11	500	5,500	856.32	500	428,160	1,430
3j-2c	Fill and backfill with selected materials	cum	6	200	1,200	6	330	1,980	549.58	330	181,361	(780)
3j-3c	Fine sand bedding	cum	1	1,600	1,600	1	1,900	1,900	173.72	1,900	330,068	(300)
3j-4c	Class E concrete using OPC	cum	2	6,500	13,000	2	10,000	20,000	0.00	10,000	-	(7,000)
3j-5c	Class B fairfaced concrete using OPC (base)	cum	2	12,375	24,750	2	13,000	26,000	0.00	13,000	-	(1,250)
b	Walls	cum	4	14,750	59,000	4	14,000	56,000	0.00	14,000	-	3,000
c	Top slab	cum	2	13,450	26,900	2	14,000	28,000	0.00	14,000	-	(1,100)
3j-6c	Class C plain concrete using OPC	cum	2	8,500	17,000	2	16,000	32,000	2.00	16,000	32,000	(15,000)
3j-7c	Hot rolled worked billet steel bars A-706	tonne	1	120,650	120,650	1	122,000	122,000	0.00	122,000	-	(1,350)
3j-8c	Structural steel comprising angles	Kg	50	345	17,250	50	180	9,000	0.00	180	-	8,250
3j-9c	Cast iron cover 600x600 mm	No	2	21,250	42,500	2	3,000	6,000	0.00	3,000	-	36,500
3j-10c	20 mm dia MS galvanized ladder rungs	No	10	720	7,200	10	1,000	10,000	47.00	1,000	47,000	(2,800)
3j-11c	Two coats of hot bitumen	Sqm	22	520	11,440	22	270	5,940	0.00	270	-	5,500
	Total				**349,420**			**324,320**			**1,018,589**	**25,100**
	Plumbing Works											
3j-1p	PE pipes (12.5 bar) in following size								0.00		-	-
a	15 mm	RM	70	60	4,200	70	68	4,760	0.00	68	-	(560)
b	25 mm	RM	135	90	12,150	135	82	11,070	0.00	82	-	1,080
c	50 mm	RM	8	270	2,160	8	270	2,160	0.00	270	-	-
d	75 mm	RM	160	590	94,400	160	688	110,080	0.00	688	-	(15,680)
3j-2p	Bronze gate valve (75 mm)	No	1	28,500	28,500	1	19,500	19,500	0.00	19,500	-	9,000
	Total				**141,410**			**147,570**				**-6,160**
	Total Water Supply (Code 3j)				**490,830**			**471,890**			**1,018,589**	**18,940**
3k	**Sewerage System**											
3k-1c	Excavation of all trenches (0-2 m)	cum	108	630	68,040	108	500	54,000	2016.37	500	1,008,185	14,040
b	2-4 meter depth	cum	36	830	29,880	36	600	21,600	129.13	600	77,477	8,280
c	4-6 m	cum	4	930	3,720	4	700	2,800	54.84	700	38,390	920
3k-2c	Fill and backfill with selected materials	cum	595	200	119,000	595	330	196,350	0.00	330	-	(77,350)
3k-3c	Fill aggregate crushed material	cum	7	1,800	12,600	7	2,000	14,000	7.56	2,000	15,110	(1,400)

BRTS ABDUL SATTAR EDHI LINE (FORMERLY BRTS ORANGE LINE)
Package - 2 : M/s KNK Pvt. Ltd.
Comparative Statement

Code No	Description	Engineer's Estimate				Bill of Quantities (BOQ)			Current Work Done Status			
		Unit	Quantity	Rate	Amount (Rs) [A]	Quantity	Rate	Amount (Rs) [B]	Quantity	Rate	Amount (Rs) [C]	Difference [A-B]
3k-4c	Fine sand bedding	cum	2	1,600	3,200	2	2,200	4,400	470.41	2,200	1,034,902	(1,200)
3k-5c	Class E concrete using OPC	cum	9	6,500	58,500	9	10,000	90,000	7.85	10,000	78,540	(31,500)
3k-6c	Class E plain reduced aggregate cement	cum	1	6,500	6,500	1	10,000	10,000	0.00	10,000	-	(3,500)
3k-7c	Class B reinforced concrete				-			0	0.00		-	-
a	Base slab	cum	10	12,375	123,750	10	13,000	130,000	14.13	13,000	183,690	(6,250)
b	Walls	cum	42	14,750	619,500	42	14,000	588,000	54.56	14,000	763,854	31,500
c	Top slab	cum	4	13,450	53,800	4	14,000	56,000	0.00	14,000	-	(2,200)
d	Precast planks	cum	2	12,500	25,000	2	16,000	32,000	0.00	16,000	-	(7,000)
3k-8c	Class C plain concrete using OPC	cum	1	11,000	11,000	1	10,000	10,000	11.33	10,000	113,323	1,000
3k-9c	RCC Class B cover of 600x600 mm	No	17	5,000	85,000	17	3,000	51,000	0.00	3,000	-	34,000
3k-10c	Hot rolled worked billet steel bars A-706	tonne	6	120,650	723,900	6	122,000	732,000	5.5783	122,000	680,553	(8,100)
3k-11c	Structural steel comprising angles	Kg	80	300	24,000	80	200	16,000	0.00	200	-	8,000
3k-12c	Cast iron cover frame 600x600 mm	No	1	21,250	21,250	1	3,000	3,000	0.00	3,000	-	18,250
3k-13c	20 mm dia MS galvanized ladder rungs	No	71	720	51,120	71	1,000	71,000	0.00	1,000	-	(19,880)
3k-14c	20 mm thick hollow block (1:6)	cum	4	10,500	42,000	4	13,000	52,000	4.10	13,000	53,300	(10,000)
3k-15c	Two coats of hot bitumen	Sqm	221	520	114,920	221	270	59,670	0.00	270	-	55,250
3k-16c	Crystallin waterproof slurry (Aquafin)	Sqm	55	1,200	66,000	55	2,000	110,000	0.00	2,000	-	(44,000)
3k-17c	25 mm thick polysterene sheet	Sqm	25	985	24,625	25	350	8,750	0.00	350	-	15,875
3k-18c	Two layers of self adhesive membrane Hygrip	Sqm	35	2,425	84,875	35	2,500	87,500	0.00	2,500	-	(2,625)
	Total				**2,372,180**			**2,400,070**			**4,047,324**	**-27,890**
	Plumbing Works											
3k-1p	uPVC drainage pipe	RM	280	1,850	518,000	280	1,625	455,000	0.00	1,625	-	63,000
3k-2p	Gully trap in chamber (300 x 300 mm)	No	8	5,500	44,000	8	5,500	44,000	0.00	5,500	-	-
	Total				**562,000**			**499,000**			**-**	**63,000**
	Total Sewerage System (Code 3k)				**2,934,180**			**2,899,070**			**4,047,324**	**35,110**
3m	**Washing & Cleaning Area**											
3m-1c	Excavation of all trenches (0-2 m)	cum	312	630	196,560	312	500	156,000	230.152	500	115,076	40,560
3m-2c	Fill and backfill with selected materials	cum	25	200	5,000	25	330	8,250	98.998	330	32,669	(3,250)
3m-3c	Class E concrete using OPC	cum	52	6,500	338,000	52	10,000	520,000	66.895	10,000	668,950	(182,000)
3m-4c	Class B reinforced concrete in following				-			0			-	-
a	Base slab	cum	225	12,375	2,784,375	225	13,000	2,925,000	105.000	13,000	1,365,000	(140,625)

BRTS ABDUL SATTAR EDHI LINE (FORMERLY BRTS ORANGE LINE)
Package - 2 : M/s KNK Pvt. Ltd.
Comparative Statement

Code No	Description	Engineer's Estimate				Bill of Quantities (BOQ)			Current Work Done Status			
		Unit	Quantity	Rate	Amount (Rs) [A]	Quantity	Rate	Amount (Rs) [B]	Quantity	Rate	Amount (Rs) [C]	Difference [A-B]
b	Walls	cum	12	14,750	177,000	12	14,000	168,000	31.660	14,000	443,240	9,000
c	staircase	cum	1	15,000	15,000	1	15,000	15,000		15,000	-	-
3m-5c	Hot rolled worked billet steel bars A-706	tonne	24	120,650	2,895,600	24	122,000	2,928,000	3.175	122,000	387,350	(32,400)
3m-6c	Two coat of hot rolled bitumen	Sqm	58	520	30,160	58	270	15,660	99.59	270	26,889	14,500
	Total				**6,441,695**			**6,735,910**			**3,039,175**	**-294,215**
	Plumbing Works											
3m-1p	PE pipes (12.5 bars) 25 mm dia	RM	50	90	4,500	50	82	4,100		82	-	400
3m-2p	Hose bib (50 mm dia)	No	1	1,500	1,500	1	7,200	7,200		7,200	-	(5,700)
3m-3p	Bronze gate valve (25 mm)	No	1	10,000	10,000	1	3,200	3,200		3,200	-	6,800
3m-4p	uPVC drainage pipe	RM	35	1,850	64,750	35	1,645	57,575		1,645	-	7,175
3m-5p	Grease trap	No	1	55,000	55,000	1	115,000	115,000		115,000	-	(60,000)
3m-6p	Submersibe drainage pump Q=10-15 US	No	2	200,000	400,000	2	475,000	950,000		475,000	-	(550,000)
	Total				**535,750**			**1,137,075**			-	**-601,325**
	Electrical Works											
3m-1e	Motor control center MCC-WC	Job	1	281,200	281,200	1	276,000	276,000	0.00	276,000	-	5,200
3m-2e	LED light Type A2	No	2	9,750	19,500	2	3,800	7,600	0.00	3,800	-	11,900
3m-3e	Single core/multi core PVC pipe (3 core-4 sqmm)	RM	20	300	6,000	20	600	12,000	0.00	600	-	(6,000)
3m-4e	Wiring of light circuit from DB to points	No	1	6,000	6,000	1	3,200	3,200	0.00	3,200	-	2,800
3m-5e	Wiring from light / exhaust fan point to switch	No	2	3,500	7,000	2		0	0.00		-	7,000
3m-6e	Wiring of 16 amp, 250 volt socket				-			0	0.00		-	-
a	From distribution to outlet	No	1	6,000	6,000	1		0				6,000
b	From outlet to outlet	No	1	3,500	3,500	1		0				3,500
3m-7e	Weather proof 16 amp, 250 volt	No	2	1,500	3,000	2		0	0.00		-	3,000
3m-8e	100 mm of underground uPVC class D pipe	RM	30	1,410	42,300	30	1,200	36,000	0.00	1,200	-	6,300
3m-9e	Single core PVC insulated copper (4 sq mm)	RM	20	80	1,600	20	100	2,000	0.00	100	-	(400)
3m-10e	600x600x3 mm tin plated copper	No	1	40,000	40,000	1	27,000	27,000	0.00	27,000	-	13,000
3m-11e	Following size perforated GI sheet				-			0	0.00		-	-
a	100x50 mm	RM	15	1,020	15,300	15	1,300	19,500	0.00	1,300	-	(4,200)
b	150x50 mm	RM	5	1,250	6,250	5	1,700	8,500	0.00	1,700	-	(2,250)

BRTS ABDUL SATTAR EDHI LINE (FORMERLY BRTS ORANGE LINE)
Package - 2 : M/s KNK Pvt. Ltd.
Comparative Statement

Code No	Description	Engineer's Estimate				Bill of Quantities (BOQ)			Current Work Done Status			
		Unit	Quantity	Rate	Amount (Rs) [A]	Quantity	Rate	Amount (Rs) [B]	Quantity	Rate	Amount (Rs) [C]	Difference [A-B]
3m-12e	8" dia single phase 250 V exhaust fans	No	1	4,500	4,500	1	2,700	2,700	0.00	2,700	-	1,800
3m-13e	40A TP&N+E load break switches	No	2	11,500	23,000	2	3,800	7,600	0.00	3,800	-	15,400
	Total				**465,150**			**402,100**			-	**63,050**
	Total Washing and Cleaning Area (Code 3m)				**7,442,595**			**8,275,085**			**3,039,175**	**- 832,490**
3n	**Maintenance Yard**											
3n-1c	Excavation of trenches 0-2 m depth	cum	312	630	196,560	312	500	156,000	44.36	500	22,180	40,560
3n-2c	Fill and backfill with selected materials	cum	25	200	5,000	25	330	8,250	0.00	330	-	(3,250)
3n-3c	Class E concrete using OPC	cum	52	6,500	338,000	52	10,000	520,000	50.20	10,000	502,000	(182,000)
3n-4c	Class B reinforced concrete in following				-			0			-	-
a	Base slab	cum	225	12,375	2,784,375	225	13,000	2,925,000	143.29	13,000	1,862,770	(140,625)
b	Walls	cum	12	14,750	177,000	12	14,000	168,000	18.40	14,000	257,600	9,000
c	staircase	cum	1	15,000	15,000	1	15,000	15,000	6.70	15,000	100,517	-
3n-5c	Hot rolled worked billet steel bars A-706	tonne	24	120,650	2,895,600	24	122,000	2,928,000	6.88	122,000	839,848	(32,400)
3n-6c	Two coat of hot rolled bitumen	Sqm	58	520	30,160	58	270	15,660	0.00	270	-	14,500
	Total				**6,441,695**			**6,735,910**			**3,584,915**	**-294,215**
	Electrical Work											
3n-1e	Underground uPVC Class D pipe	RM	27	1,410	38,070	27	1,200	32,400		1,200	-	5,670
3n-2e	40A TP&N+E load break switches	No	2	11,500	23,000	2	4,300	8,600		4,300	-	14,400
	Total				**61,070**			**41,000**			-	**20,070**
	Total Maintenance Yard (Code 3n)				**6,502,765**			**6,776,910**			**3,584,915**	**- 274,145**
3o	**FIRE WATER TANK AND PUMP ROOM**											
3o-1c	Excavation in all kinds of sub surfaces 0-2 m	cum	405	630	255,150	405	500	202,500	100.68	500	50,340	52,650
b	2-4 meter depth	cum	200	830	166,000	200	600	120,000	0.00	600	-	46,000
3o-2c	Fill and backfill with selected materials	cum	45	200	9,000	45	330	14,850	0.00	330	-	(5,850)
3o-3c	100 mm thick compacted stone soling	Sqm	5	450	2,250	5	350	1,750	0.00	350	-	500
3o-4c	Termite control treatment to surfaces	Sqm	8	140	1,120	8	270	2,160	228.75	270	61,763	(1,040)
3o-5c	Class E plain cement concrete using OPC	cum	45	6,500	292,500	45	10,000	450,000	24.39	10,000	243,900	(157,500)
3o-6c	Class E plain reduced aggregate cement	cum	8	6,500	52,000	8	10,000	80,000	11.06	10,000	110,600	(28,000)

BRTS ABDUL SATTAR EDHI LINE (FORMERLY BRTS ORANGE LINE)
Package - 2 : M/s KNK Pvt. Ltd.
Comparative Statement

Code No	Description	Engineer's Estimate				Bill of Quantities (BOQ)			Current Work Done Status			
		Unit	Quantity	Rate	Amount (Rs) [A]	Quantity	Rate	Amount (Rs) [B]	Quantity	Rate	Amount (Rs) [C]	Difference [A-B]
3o-7c	Class D plain cement concrete using OPC	cum	1	8,500	8,500	1	15,000	15,000	0.00	15,000	-	(6,500)
3o-8c	Class A underground water tank concrete				-			0			-	-
a	Base slab	cum	85	16,500	1,402,500	85	13,000	1,105,000	91.38	13,000	1,187,940	297,500
b	Top slab	cum	68	15,500	1,054,000	68	14,000	952,000	71.352	14,000	998,929	102,000
c	Walls	cum	52	17,500	910,000	52	14,000	728,000	50.55	14,000	707,700	182,000
3o-9c	Class B reinforced concrete				-			0			-	-
a	Columns	cum	2	14,500	29,000	2	12,000	24,000	2.20	12,000	26,412	5,000
b	Beams & lintel	cum	2	15,300	30,600	2	13,000	26,000	6.90	13,000	89,700	4,600
c	Slab and projections	cum	9	14,500	130,500	9	13,000	117,000	8.30	13,000	107,900	13,500
d	Pads	cum	1	16,000	16,000	1	14,000	14,000	0.00	14,000	-	2,000
3o-10c	Precast fairfaced Class B reonforced concrete	cum	1	15,000	15,000	1	13,000	13,000	0.00	13,000	-	2,000
3o-11c	Hot rolled worked billet steel bars A-706	tonne	28	120,650	3,378,200	28	122,000	3,416,000	20.83	122,000	2,541,260	(37,800)
3o-12c	Mild steel grill louvered door as per design	Kg	130	260	33,800	130	180	23,400	0.00	180	-	10,400
3o-13c	Reinforced masonry of following (1:6) 150 mm	cum	11	9,500	104,500	11	11,000	121,000	7.53	11,000	82,830	(16,500)
b	100 mm	cum	16	10,500	168,000	16	13,000	208,000	22.97	13,000	298,610	(40,000)
3o-14c	12 mm thick 1:4 plaster	Sqm	108	575	62,100	108	500	54,000	0.00	500	-	8,100
3o-15c	20 mm thick, 1:4 plaster	Sqm	88	650	57,200	88	550	48,400	0.00	550	-	8,800
3o-16c	20 mm thick plaster 1:4	Sqm	342	675	230,850	342	600	205,200	0.00	600	-	25,650
3o-17c	Anodized aluminium sliding ventilator	Sqm	1	12,500	12,500	1	11,000	11,000	1.00	11,000	11,000	1,500
3o-18c	75 mm thick class C concrete floor	Sqm	38	850	32,300	38	750	28,500	0.00	750	-	3,800
3o-19c	Cement concrete skirting 100 high	Sqm	4	650	2,600	4	1,200	4,800	0.00	1,200	-	(2,200)
3o-20c	Two coats of hot bitumen	Sqm	198	520	102,960	198	270	53,460	229.36	270	61,927	49,500
3o-21c	Water proffing & build up roofing over slabs	Sqm	45	4,500	202,500	45	350	15,750	44.10	350	15,435	186,750
3o-22c	Crystallin waterproof slurry (Aquafin)	Sqm	342	1,200	410,400	342	300	102,600	670.78	300	201,234	307,800
3o-23c	25 mm thick polysterene sheet	Sqm	170	985	167,450	170	450	76,500	229.36	450	103,212	90,950
3o-24c	Two layers of self adhesive membrane Hygrip	Sqm	250	2,425	606,250	250	2,600	650,000	468.69	2,600	1,218,594	(43,750)
3o-25c	Cast iron cover frame	Sqm	1	21,250	21,250	1	3,000	3,000	0.00	3,000	-	18,250
3o-26c	20 mm dia MS galvanized ladder rungs	Sqm	7	720	5,040	7	1,000	7,000	40.00	1,000	40,000	(1,960)
3o-27c	Distemper paint to surface of ceiling	Sqm	38	250	9,500	38	450	17,100	19.00	450	8,550	(7,600)

BRTS ABDUL SATTAR EDHI LINE (FORMERLY BRTS ORANGE LINE)
Package - 2 : M/s KNK Pvt. Ltd.
Comparative Statement

Code No	Description	Engineer's Estimate				Bill of Quantities (BOQ)			Current Work Done Status			
		Unit	Quantity	Rate	Amount (Rs) [A]	Quantity	Rate	Amount (Rs) [B]	Quantity	Rate	Amount (Rs) [C]	Difference [A-B]
3o-28c	Matt Enamel paint of approved make	Sqm	70	500	35,000	70	550	38,500	35.00	550	19,250	(3,500)
3o-29c	Weather resistant paint of approved make	Sqm	88	400	35,200	88	600	52,800	44.00	600	26,400	(17,600)
	Total				**10,051,720**			**9,002,270**			**8,213,486**	**1,049,450**
3o	**Fire Work (Phase-1)**											
3o-1p	Water level indicator as specified	No	1	15,000	15,000	1	5,000	5,000	0.00	5,000	-	10,000
3o-2p	Cast iron cover with frame (600 x 600 mm)	No	2	20,500	41,000	2	4,000	8,000	0.00	4,000	-	33,000
3o-3p	Galvanised MS ladder rungs	No	7	650	4,550	7	380	2,660	0.00	380	-	1,890
3o-4p	GI U turn vent pipe (100 mm dia)	No	6	5,000	30,000	6	6,500	39,000	0.00	6,500	-	(9,000)
3o-5p	PE filling pipe (12.5 bars pressure) (50 mm dia)	RM	5	260	1,300	5	310	1,550	0.00	310	-	(250)
3o-6p	Girder and pulley block for 5 tonne	No	1	150,000	150,000	1	250,000	250,000	1.00	280,000	280,000	(100,000)
3o-7p	Deep well fire water pump and motor	No	2	3,350,000	6,700,000	2	2,275,000	4,550,000	1.00	2,275,000	2,275,000	2,150,000
3o-8p	Deep well turbine fire jockey pump/motor	No	1	870,000	870,000	1	1,475,000	1,475,000	0.70	1,475,000	1,032,500	(605,000)
3o-9p	Above ground piller type fire hydrant	No	2	95,000	190,000	2	165,000	330,000	2.00	165,000	330,000	(140,000)
3o-10p	Stemless black steel pipe ASTM A53				-			0			-	-
a	75 mm	RM	25	3,250	81,250	25	4,900	122,500	84.40	4,800	405,120	(41,250)
b	150 mm	RM	5	6,000	30,000	5	14,200	71,000	0.00	14,200	-	(41,000)
c	200 mm	RM	150	7,920	1,188,000	150	22,000	3,300,000	227.50	22,000	5,005,000	(2,112,000)
	Total				**9,301,100**			**10,154,710**			**9,327,620**	**-853,610**
3o	**Fire Works (Phase-2)**											
3o-1p	Ground piller type fire hydrant with two 65 mm dia outlet and one 100 mm dia outlet	No	1	95,000	95,000	1	165,000	165,000		165,000	-	(70,000)
3o-2p	Seamless black steel pipe (200 mm dia)	RM	55	7,920	435,600	55	7,200	396,000		7,200	-	39,600
	Total				**530,600**			**561,000**			**-**	**-30,400**
	Electrical Works											
	Supply, installation, testing, commissioning of following items											-
3o-1e	Motor control center (MCC) as per single line diagram including all accessories	Job	1	950,000	950,000	1	298,000	298,000		298,000	-	652,000
3o-2e	Light fixtures (Type-A2) surface/wall mounted	No	4	9,750	39,000	4	3,800	15,200		3,800	-	23,800

BRTS ABDUL SATTAR EDHI LINE (FORMERLY BRTS ORANGE LINE)
Package - 2 : M/s KNK Pvt. Ltd.
Comparative Statement

Code No	Description	Engineer's Estimate				Bill of Quantities (BOQ)			Current Work Done Status			
		Unit	Quantity	Rate	Amount (Rs) [A]	Quantity	Rate	Amount (Rs) [B]	Quantity	Rate	Amount (Rs) [C]	Difference [A-B]
3o-3e	Following sizes of single core/multi core PVC insulated and PVC sheathed, unarmoured copper conductor cables				-			0			-	-
a	3 core, 6 sqmm	RM	20	430	8,600	20	600	12,000		600	-	(3,400)
b	3 core, 35 sqmm	RM	60	1,380	82,800	60	2,000	120,000		2,000	-	(37,200)
3o-4e	Wiring of light circuit from DB to point/switch	No	1	6,000	6,000	1	4,300	4,300		4,300	-	1,700
3o-5e	Wiring from light / exhaust fan point to switch	No	2	3,500	7,000	2	1,200	2,400		1,200	-	4,600
3o-6e	Same as item 3o-5e but wiring point to point	No	2	2,500	5,000	2	650	1,300		650	-	3,700
3o-7e	Wiring of 16A, 250 volts				-			0			-	-
	From DB to outlet	No	1	6,000	6,000	1	3,800	3,800		3,800	-	2,200
	From outlet to outlet	No	3	3,500	10,500	3	800	2,400		800	-	8,100
3o-8e	Weather proof 16 A, 250 volts, 2 pin	No	4	1,000	4,000	4	1,000	4,000		1,000	-	-
3o-9e	150 mm internal dia of underground uPVC Class D pipes	RM	6	2,400	14,400	6	3,200	19,200		3,200	-	(4,800)
3o-10e	Following sizes of single core PVC insulated copper conductor cables				-			0			-	-
a	6 sqmm	RM	20	120	2,400	20	200	4,000		200	-	(1,600)
b	16 sqmm	RM	60	300	18,000	60	300	18,000		300	-	-
3o-11e	600 mm x 600 mm x 3 mm tin plated copper	No	1	40,000	40,000	1	27,000	27,000		27,000	-	13,000
3o-12e	Following type perforated GI sheet				-			0			-	-
a	100 x 50 mm	RM	15	1,020	15,300	15	1,200	18,000		1,200	-	(2,700)
b	150 x 150 mm	RM	5	1,250	6,250	5	1,600	8,000		1,600	-	(1,750)
c	300 x 75 mm	RM	8	2,650	21,200	8	2,100	16,800		2,100	-	4,400
3o-13e	8" dia single phase 250 V exhaust fans	No	2	4,500	9,000	2	2,700	5,400		2,700	-	3,600
3o-14e	20 mm dia PVC conduit	RM	5	73	365	5	100	500		100	-	(135)
3o-15e	Wiring of RJ45 telecom wall	No	2	1,850	3,700	2	4,200	8,400		4,200	-	(4,700)
3o-16e	Cat-6A UTP RJ45 telecom wall	No	2	1,383	2,766	2	1,300	2,600		1,300	-	166
3o-17e	Plastic white cover plate	No	2	369	738	2	400	800		400	-	(62)
3o-18e	10 pair intermediate disconnection module	No	3	5,320	15,960	3	6,000	18,000		6,000	-	(2,040)
3o-19e	16 SWG telephone junction box	No	1	8,360	8,360	1	2,200	2,200		2,200	-	6,160
3o-20e	20 mm dia PVC conduit	RM	20	73	1,460	20	100	2,000		100	-	(540)

BRTS ABDUL SATTAR EDHI LINE (FORMERLY BRTS ORANGE LINE)
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Comparative Statement

Code No	Description	Engineer's Estimate				Bill of Quantities (BOQ)			Current Work Done Status			
		Unit	Quantity	Rate	Amount (Rs) [A]	Quantity	Rate	Amount (Rs) [B]	Quantity	Rate	Amount (Rs) [C]	Difference [A-B]
3o-21e	1.5 sqmm fire resistant 2 core	RM	20	274	5,480	20	400	8,000		400	-	(2,520)
3o-22e	Inteligent addressable optical smoke and heat detector	No	1	12,464	12,464	1	6,800	6,800		6,800	-	5,664
3o-23e	Inteligent addressable manual call point with base	No	1	10,640	10,640	1	5,800	5,800		5,800	-	4,840
3o-24e	Loop powered addressable audio/video alarm	No	1	14,820	14,820	1	7,300	7,300		7,300	-	7,520
3o-25e	Loop powered addressable control module	No	3	13,680	41,040	3	9,000	27,000		9,000	-	14,040
3o-26e	Loop powered addressable monitor module	No	3	13,680	41,040	3	9,600	28,800		9,600	-	12,240
	Total				**1,404,283**			**698,000**			**-**	**706,283**
	Total Fire Water Works (Code 3o)				**21,287,703**			**20,415,980**			**17,541,106**	**871,723**
3P	SUB STATION											
03p-1c	Excavation for trenches in all kinds of subsurface material upto 2 meter depth including disposal of surplus/rejected excavated material to designated places.				-							-
	a) 0 - 2 meter depth	Cu.m.	62.00	630	39,060	62.00	500	31,000	60.99	500	30,495.00	8,060
03p-2c	Fill & back fill with selected materials including levelling, dressing, watering and				-			0			-	-
	a) obtained from required excavation	Cu.m.	10.00	200	2,000	10.00	330	3,300	71.45	330	23,578.17	(1,300)
03p-3c	150mm thick compacted stone soling.	Sq.m.	50.00	550	27,500	50.00	400	20,000	-	400	-	7,500
03p-4c	100mm thick compacted stone soling.	Sq.m.	22.00	450	9,900	22.00	300	6,600	-	300	-	3,300
03p-5c	Termite Control Treatment to specified surfaces.	Sq.m.	72.00	140	10,080	72.00	270	19,440	-	270	-	(9,360)
03p-6c	Termite Control Treatment to specified surfaces.	Cu.m.	14.00	6,500	91,000	14.00	10,000	140,000	6.17	10,000	61,655.00	(49,000)
03p-7c	Class 'D' plain cement concrete using ordinary Portland cement in situ and foundations etc.	Cu.m.	1.00	8,500	8,500	1.00	15,000	15,000	-	15,000	-	(6,500)
03p-8c	Class 'D' plain cement concrete using ordinary Portland cement in Plinth Protectioni/c Bitumen Seal	Cu.m.	2.00	9,500	19,000	2.00	15,000	30,000	-	15,000	-	(11,000)
03p-9c	Class 'B' reinforced concrete using ordinary Portland cement in following sub structures:				-			0	-		-	-
	a) Foundations/grade Slab	Cu.m.	24.00	12,375	297,000	24.00	9,000	216,000	11.40	9,000	102,600.00	81,000
	b) Plinth Beam	Cu.m.	6.00	14,000	84,000	6.00	9,300	55,800	4.24	9,300	39,451.33	28,200

BRTS ABDUL SATTAR EDHI LINE (FORMERLY BRTS ORANGE LINE)
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Comparative Statement

Code No	Description	Engineer's Estimate				Bill of Quantities (BOQ)			Current Work Done Status			
		Unit	Quantity	Rate	Amount (Rs) [A]	Quantity	Rate	Amount (Rs) [B]	Quantity	Rate	Amount (Rs) [C]	Difference [A-B]
	c) Columns upto Plinth	Cu.m.	2.00	14,250	28,500	2.00	9,500	19,000	2.66	9,500	25,222.50	9,500
	d) Trenches (Base + Wall)	Cu.m.	5.00	14,500	72,500	5.00	10,000	50,000	17.36	10,000	173,600.00	22,500
03p-10c	Class 'B' reinforced concrete using ordinary Portland cement in following sub structures:				-			0	-		-	-
	a) Columns	Cu.m.	4.00	14,500	58,000	4.00	11,000	44,000	3.80	11,000	41,800.00	14,000
	b) Beams & Lintels	Cu.m.	3.00	15,300	45,900	3.00	12,000	36,000	6.22	12,000	74,640.00	9,900
	c) Slabs & Projections	Cu.m.	13.00	14,500	188,500	13.00	13,000	169,000	11.44	13,000	148,720.00	19,500
	f) Purdi	Cu.m.	2.00	16,000	32,000	2.00	14,000	28,000	-	14,000	-	4,000
	f) Pad	Cu.m.	3.00	12,500	37,500	3.00	15,000	45,000	-	15,000	-	(7,500)
03p-11c	Hot rolled worked billet steel bars conforming to ASTM A-615 with specified characteristic strength of not less than 414 Mpa; including cutting, bending, binding, placing of steel reinforcement as shown on the drawings or as directed by the Engineer.	tonne	7.00	120,650	844,550	7.00	122,000	854,000	3.43	122,000	418,704.00	(9,450)
03p-12c	MS Steel Doors as per design i/c paints	Kg	870.00	260	226,200	870.00	180	156,600	783.00	180	140,940.00	69,600
03p-13c	Hollow masonry 150mm thick set in 1:6 cement sand mortar.	Cu.m.	24.00	9,500	228,000	24.00	11,000	264,000	-	11,000	-	(36,000)
03p-14c	12mm thick, 1:4 cement sand smooth plaster to specified interior surfaces.	Sq.m.	255.00	575	146,625	255.00	500	127,500	229.50	500	114,750.00	19,125
03p-15c	20mm thick, 1:4 cement sand smooth plaster to specified exterior surfaces.	Sq.m.	190.00	650	123,500	190.00	550	104,500	171.00	550	94,050.00	19,000
03p-16c	100 mm thick Class 'D' cement concrete sub floor.	Sq.m.	55.00	950	52,250	55.00	600	33,000	49.50	600	29,700.00	19,250
03p-17c	75 mm thick Class 'C' cement concrete floor.	Sq.m.	55.00	850	46,750	55.00	750	41,250	49.50	750	37,125.00	5,500
03p-18c	Cement Concrete skirting 100mm high using tile of approved size, colour and quality laid in approved pattern including rough base plaster complete in all respect as shown on the drawings & specifications.	Sq.m.	4.00	650	2,600	4.00	2,400	9,600	-	2,400	-	(7,000)
03p-19c	Two coats of hot bitumen grade 10/20 applied at the rate of 1 kg./Sq.m. per coat to all exposed structural concrete surfaces in contact with earth.	Sq.m.	180.00	520	93,600	180.00	270	48,600	101.18	270	27,319.00	45,000

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Comparative Statement

Code No	Description	Engineer's Estimate				Bill of Quantities (BOQ)			Current Work Done Status			
		Unit	Quantity	Rate	Amount (Rs) [A]	Quantity	Rate	Amount (Rs) [B]	Quantity	Rate	Amount (Rs) [C]	Difference [A-B]
03p-20c	Water proofing & Built-up roofing over roof slab	Sq.m.	77.00	4,500	346,500	77.00	350	26,950	-	350	-	319,550
03p-21c	Structure Steel works comprising MS Chequered Plate, Channel, angles, flat, round bar, etc., as per design including hardware fittings, with synthetic enamel paint over red oxide primer complete in all respect as shown on the drawings.	Kg.	######	300	396,000	1,320.00	180	237,600	-	180	-	158,400
03p-22c	Distemper Paint to ceiling on specified	Sq.m.	68.00	250	17,000	68.00	450	30,600	40.80	450	18,360.00	(13,600)
03p-23c	Matt Enamel paint of approved make, quality, colour/ shade including wall sealer, primer, surfaces preparation to specified interior surfaces complete in all respect as shown on the drawings and specifications.	Sq.m.	186.00	500	93,000	186.00	550	102,300	111.60	550	61,380.00	(9,300)
03p-24c	Weather resistant paint of approved make, quality, colour/ shade including surfaces preparation to specified exterior surfaces complete in all respect as shown on the drawings and specifications.	Sq.m.	190.00	400	76,000	190.00	600	114,000	111.60	600	66,960.00	(38,000)
	Total				**3,743,515**			**3,078,640**			**1,731,050**	**664,875**
	Electrical Works											
3p-1e	LT switchboards as per single line diagram											-
a	MLTPM including PFI Panel	Job	1	1,065,050	1,065,050	1	1,660,000	1,660,000		1,660,000	-	(594,950)
b	EMLTP	Job	1	696,325	696,325	1	930,000	930,000		930,000	-	(233,675)
3p-2e	LT DB as per single line diagram (DB-LT)	Job	1	93,800	93,800	1	38,000	38,000		38,000	-	55,800
3p-3e	LED or compact fluorescent or high intensity discharge light fixture				-			0			-	-
a	Type A2	No	10	9,750	97,500	10	3,800	38,000		3,800	-	59,500
b	Type E1	No	2	10,500	21,000	2	1,400	2,800		1,400	-	18,200
3p-4e	Single core/multicore PVC insulated and PVC sheathed unarmourmed copper				-			0			-	-
a	4 core 10 sqmm	RM	22	925	20,350	22	1,000	22,000		1,000	-	(1,650)
b	4 core 150 sqmm	RM	45	8,010	360,450	45	8,500	382,500		8,500	-	(22,050)
3p-5e	Wiring of light circuit from DB to point/switch	No	2	6,000	12,000	2	3,200	6,400		3,200	-	5,600

BRTS ABDUL SATTAR EDHI LINE (FORMERLY BRTS ORANGE LINE)
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Comparative Statement

Code No	Description	Engineer's Estimate				Bill of Quantities (BOQ)			Current Work Done Status			
		Unit	Quantity	Rate	Amount (Rs) [A]	Quantity	Rate	Amount (Rs) [B]	Quantity	Rate	Amount (Rs) [C]	Difference [A-B]
3p-6e	Wiring from light / exhaust fan point to switch	No	7	3,500	24,500	7	1,200	8,400		1,200	-	16,100
3p-7e	Same as item 3p-5e but wiring point to point	No	5	2,500	12,500	5	650	3,250		650	-	9,250
3p-8e	Wiring of 15A, 250 volt socket				-			0			-	-
a	From DB to outlet	No	2	6,000	12,000	2	3,800	7,600		3,800	-	4,400
b	From outlet to outlet	No	4	3,500	14,000	4	1,100	4,400		1,100	-	9,600
3p-9e	15 Amp, 250 volt, 2 pin + earth switch socket	No	6	1,000	6,000	6	600	3,600		600	-	2,400
3p-10e	Following size of single core PVC insulated copper conductor cable				-			0			-	-
a	10 sqmm	RM	22	200	4,400	22	200	4,400		200	-	-
b	70 sqmm	RM	75	1,260	94,500	75	750	56,250		750	-	38,250
c	95 sqmm	RM	55	1,710	94,050	55	1,200	66,000		1,200	-	28,050
3p-11e	600 x 600 x 3 mm tin plated copper plate	No	2	40,000	80,000	2	21,000	42,000		21,000	-	38,000
3p-12e	600 x 600 x 3 mm tin plated copper plate	No	2	45,000	90,000	2	38,000	76,000		38,000	-	14,000
3p-13e	Earth connecting point with all accessories.	No	3	5,000	15,000	3	5,300	15,900		5,300	-	(900)
3p-14e	200 dia PVC conduit installed concealed	RM	25	73	1,825	25	100	2,500		100	-	(675)
3p-15e	1.5 sqmm fire resistant 2 core	RM	30	274	8,220	30	400	12,000		400	-	(3,780)
3p-16e	Inteligent addressable optical smoke and heat detector	No	1	12,464	12,464	1	6,800	6,800		6,800	-	5,664
3p-17	Inteligent addressable heat detector with base built isolater	No	1	9,424	9,424	1	6,300	6,300		6,300	-	3,124
3p-18e	Loop powered addressable audio/video alarm	No	2	14,820	29,640	2	7,500	15,000		7,500	-	14,640
3p-19e	Inteligent addressable manual call point with base	No	2	20,640	41,280	2	6,000	12,000		6,000	-	29,280
	Total				**2,916,278**			**3,422,100**				**-505,822**
	Total Sub Station (Code 3p)				**6,659,793**			**6,500,740**			**1,731,050**	**159,053**
4	**BUS STATIONS (2 NOS.)**											
04-1C	Excavation for trenches in all kinds of subsurface material upto 2 meter depth including disposal of surplus/rejected excavated material to designated places.										-	-

BRTS ABDUL SATTAR EDHI LINE (FORMERLY BRTS ORANGE LINE)
Package - 2 : M/s KNK Pvt. Ltd.
Comparative Statement

Code No	Description	Engineer's Estimate				Bill of Quantities (BOQ)			Current Work Done Status			
		Unit	Quantity	Rate	Amount (Rs) [A]	Quantity	Rate	Amount (Rs) [B]	Quantity	Rate	Amount (Rs) [C]	Difference [A-B]
	a) 0 - 2 meter depth	Cu.m.	1,652	630	1,040,760	1,652	500	826,000	1157.70	500	578,850	214,760
	b) 2 - 4 meter depth	Cu.m.	330	830	273,900	330	600	198,000	82.61	600	49,566	75,900
04-2C	Fill & back fill with selected materials including levelling, dressing, watering and				-			0			-	-
	a) obtained from required excavation	Cu.m.	1,415	200	283,000	1,415	330	466,950	387.49	330	127,872	(183,950)
	b) obtained from outside sources	Cu.m.	300	1,200	360,000	300	500	150,000	0.00	500	-	210,000
04-3C	Sweet earth fill material obtained from outside source.	Cu.m.	15	1,300	19,500	15	1,800	27,000	0.00	1,800	-	(7,500)
04-4C	150mm thick compacted stone soling.	Sq.m.	632	550	347,600	632	400	252,800	0.00	400	-	94,800
04-5C	100mm thick compacted stone soling.	Sq.m.	84	450	37,800	84	300	25,200	0.00	300	-	12,600
04-6C	Termite Control Treatment to specified surfaces.	Sq.m.	632	140	88,480	632	270	170,640	1650.38	270	445,603	(82,160)
04-7C	Class 'E' plain cement concrete using ordinary Portland cement in foundations.	Cu.m.	118	6,500	767,000	118	10,000	1,180,000	116.75	10,000	1,167,500	(413,000)
04-8C	Class 'E' plain Reduced aggregate cement concrete using ordinary Portland cement in foundations.	Cu.m.	1	6,500	6,500	1	10,000	10,000	0.00	10,000	-	(3,500)
04-9C	Class 'D' plain cement concrete using ordinary Portland cement in situ and foundations etc.	Cu.m.	40	8,500	340,000	40	15,000	600,000	0.00	15,000	-	(260,000)
04-10C	Class 'D' plain cement concrete using ordinary Portland cement in Plinth Protectioni/c Bitumen Seal	Cu.m.	9	9,500	85,500	9	15,000	135,000	10.34	15,000	155,100	(49,500)
04-11C	Class 'B' reinforced concrete using ordinary Portland cement in following Sub structures:				-			0			-	-
	a) Foundation	Cu.m.	376	12,375	4,653,000	376	9,300	3,496,800	424.98	9,300	3,952,314	1,156,200
	b) Column upto plinth	Cu.m.	50	14,250	712,500	50	10,000	500,000	87.44	10,000	874,400	212,500
	c) Plinth beams	Cu.m.	71	14,000	994,000	71	10,000	710,000	155.56	10,000	1,555,600	284,000
	d) Walls	Cu.m.	30	14,500	435,000	30	11,000	330,000	70.33	11,000	773,630	105,000
04-12C	Class 'B' reinforced concrete using ordinary Portland cement in following				-			0			-	-
	a) Columns	Cu.m.	141	14,500	2,044,500	141	11,000	1,551,000	0.00	11,000	-	493,500
	b) Beams	Cu.m.	26	15,300	397,800	26	11,000	286,000	0.00	11,000	-	111,800
	c) Slabs & Projections	Cu.m.	69	14,500	1,000,500	69	12,000	828,000	0.00	12,000	-	172,500
	d) Walls	Cu.m.	111	14,800	1,642,800	111	13,000	1,443,000	0.00	13,000	-	199,800
	e) Staircase	Cu.m.	25	17,500	437,500	25	13,000	325,000	0.00	13,000	-	112,500
	f) Purdi	Cu.m.	112	16,000	1,792,000	112	13,000	1,456,000	0.00	13,000	-	336,000

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Comparative Statement

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		Unit	Quantity	Rate	Amount (Rs) [A]	Quantity	Rate	Amount (Rs) [B]	Quantity	Rate	Amount (Rs) [C]	Difference [A-B]
	g) Precast Planks	Cu.m.	115	15,500	1,782,500	115	15,000	1,725,000	0.00	15,000	-	57,500
	h) Precast Ribs	Cu.m.	34	15,500	527,000	34	17,000	578,000	0.00	17,000	-	(51,000)
	i) Roof Screed	Cu.m.	55	8,500	467,500	55	11,000	605,000	0.00	11,000	-	(137,500)
04-13C	Class 'A' reinforced concrete using ordinary Portland cement in following sub structures:				-			0			-	-
	a) Base Slab	Cu.m.	2	16,500	33,000	2	14,000	28,000	0.00	14,000	-	5,000
	b) Walls	Cu.m.	3	17,500	52,500	3	14,000	42,000	0.00	14,000	-	10,500
	c) Top Slab	Cu.m.	2	15,500	31,000	2	14,000	28,000	0.00	14,000	-	3,000
04-14C	Precast fairfaced Class 'B' reinforced concrete using ordinary Portland cement in window sills, water spouts, planks and coping etc. as per design laid in specified cement sand mortar including fixing complete in all respect as shown on the drawings.	Cu.m.	2	15,000	30,000	2	13,000	26,000	0.00	13,000	-	4,000
04-15C	Hot rolled worked billet steel bars conforming to ASTM A-615 with specified characteristic strength of not less than 414 Mpa; including cutting, bending, binding, placing of steel reinforcement as shown on the drawings or as directed by the Engineer.	tonne	97	120,650	11,703,050	97	122,000	11,834,000	103.61	122,000	12,640,420	(130,950)
04-16C	Structural steel/ steel structure for columns, trusses, prulins, plates, nuts, bolts, washers etc. comprising fabricating, erecting, sand blasting, embedding, grouting and painting complete in all respect as shown on the drawings and as per specifications.	tonne	36	300,000	10,800,000	36	180,000	6,480,000	0.00	180,000	-	4,320,000
04-17C	Mild Steel grill, Louvered Door as per design including hardware fittings, with synthetic enamel paint over red oxide primer complete in all respect as shown on the drawings.	Kg.	825	260	214,500	825	170	140,250	0.00	170	-	74,250

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		Unit	Quantity	Rate	Amount (Rs) [A]	Quantity	Rate	Amount (Rs) [B]	Quantity	Rate	Amount (Rs) [C]	Difference [A-B]
04-18C	Structure Steel works comprising MS Chequered Plate, Channel, angles, flat, round bar, etc., as per design including hardware fittings, with synthetic enamel paint over red oxide primer complete in all respect as shown on the drawings.	Kg.	962	300	288,600	962	180	173,160	20000.00	180	3,600,000	115,440
04-19C	Stainless steel Pipe handrailing floor mounted as per design including all accessories complete in all respect as shown on the drawings.	R.m.	30	10,500	315,000	30	1,500	45,000	0.00	1,500	-	270,000
04-20C	Insulated Roof Panel	Sq.m.	950	4,500	4,275,000	950	1,100	1,045,000	693.00	1,100	762,300	3,230,000
04-21C	Solid masonry 150mm thick set in 1:6 cement sand mortar.	Cu.m.	218	9,500	2,071,000	218	11,000	2,398,000	0.00	11,000	-	(327,000)
04-22C	Solid masonry 100mm thick set in 1:6 cement sand mortar.	Cu.m.	22	10,500	231,000	22	13,000	286,000	7.89	13,000	102,570	(55,000)
04-23C	12mm thick, 1:4 cement sand smooth plaster to specified interior surfaces.	Sq.m.	2,180	575	1,253,500	2,180	500	1,090,000	423.73	500	211,865	163,500
04-24C	20mm thick, 1:4 cement sand smooth plaster to specified exterior surfaces.	Sq.m.	940	650	611,000	940	550	517,000	0.00	550	-	94,000
04-25C	Wooden Door D1	Sq.m.	6	17,000	102,000	6	4,000	24,000	0.00	4,000	-	78,000
04-26C	Anodized aluminium glazed Doors of the following types including 6mm thick tempered glass and hardware set as per schedule complete in all respect as shown on the drawings:				-			0			-	-
	Doors				-			0			-	-
	a) Type D1	Sq.m.	24	12,500	300,000	24	12,000	288,000	0.00	12,000	-	12,000
	b) Type D2	Sq.m.	22	12,500	275,000	22	13,000	286,000	0.00	13,000	-	(11,000)
	a) Type W1	Sq.m.	1	12,500	12,500	1	13,000	13,000	0.00	13,000	-	(500)
	a) Type V1	Sq.m.	1	12,500	12,500	1	13,000	13,000	0.00	13,000	-	(500)
04-27C	Anodized aluminium Automatic glazed Sliding Doors with sensor of the following types including 12mm thick tempered glass and hardware set as per schedule complete in all respect as shown on the drawings:				-			0			-	-
	Doors				-			0			-	-
	a) Type DW1	Sq.m.	110	16,500	1,815,000	110	14,000	1,540,000	0.00	14,000	-	275,000

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		Unit	Quantity	Rate	Amount (Rs) [A]	Quantity	Rate	Amount (Rs) [B]	Quantity	Rate	Amount (Rs) [C]	Difference [A-B]
04-28C	Anodized aluminium fix partiotions of the following types including 12mm thick tempered glass and hardware set as per schedule complete in all respect as shown on the drawings:				-			0			-	-
	a) Type W1	Sq.m.	110	16,500	1,815,000	110	14,000	1,540,000	0.00	14,000	-	275,000
04-29C	100 mm thick Class 'D' cement concrete sub floor.	Sq.m.	632	925	584,600	632	600	379,200	568.80	600	341,280	205,400
04-30C	75 mm thick Class 'D' cement concrete sub floor.	Sq.m.	106	850	90,100	106	750	79,500	95.40	750	71,550	10,600
04-31C	Porcelain tile floor using of size 600x600mm in approved colour laid in approved pattern set in specified cement sand mortar including Class 'C' cement concrete screed base complete in all respect as shown on the drawings & specifications.	Sq.m.	732	3,200	2,342,400	732	2,600	1,903,200	605.72	2,600	1,574,872	439,200
04-32C	Porcelain tile skirting 100mm high using tile of approved size, colour and quality laid in approved pattern including rough base plaster complete in all respect as shown on the drawings & specifications.	Sq.m.	22	3,200	70,400	22	2,400	52,800	0.00	2,400	-	17,600
04-33C	Cement Concrete skirting 100mm high using tile of approved size, colour and quality laid in approved pattern including rough base plaster complete in all respect as shown on the drawings & specifications.	Sq.m.	12	800	9,600	12	2,400	28,800	0.00	2,400	-	(19,200)
04-34C	Cement Concrete skirting 200mm high using tile of approved size, colour and quality laid in approved pattern including rough base plaster complete in all respect as shown on the drawings & specifications.	Sq.m.	2	800	1,600	2	600	1,200	0.00	600	-	400
04-35C	Porcelain tile floor using of size 300x300mm in approved colour laid in approved pattern set in specified cement sand mortar including Class 'C' cement concrete screed base complete in all respect as shown on the drawings & specifications.	Sq.m.	35	3,200	112,000	35	2,400	84,000	0.00	2,400	-	28,000

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		Unit	Quantity	Rate	Amount (Rs) [A]	Quantity	Rate	Amount (Rs) [B]	Quantity	Rate	Amount (Rs) [C]	Difference [A-B]
04-36C	Porcelain tile dado using approved sizw & colour laid in approved pattern set in specified cement sand mortar including Class 'C' cement concrete screed base complete in all respect as shown on the drawings & specifications.	Sq.m.	190	3,400	646,000	190	2,200	418,000	0.00	2,200	-	228,000
04-37C	Vanity Tops as per design using 20mm thick Granite Top of approved size & colour laid in approved pattern set in specified cement sand mortar including Class 'C' cement concrete screed base complete in all respect as shown on the drawings & specifications.	Sq.m.	2	20,245	40,490	2	5,000	10,000	2.00	5,000	10,000	30,490
04-38C	Porcelain tile Cladding using tile of approved size, colour and quality laid in approved pattern including rough base plaster complete in all respect as shown on the drawings & specifications.	Sq.m.	2,550	3,200	8,160,000	2,550	700	1,785,000	0.00	700	-	6,375,000
04-39C	20mm thick Granite (Pre polished) on Treads approved size & colour laid in approved pattern set in specified cement sand mortar including Class 'C' cement concrete screed base complete in all respect as shown on the drawings & specifications.	Sq.m.	130	14,850	1,930,500	130	12,000	1,560,000	0.00	12,000	-	370,500
04-40C	20mm thick Granite (Pre polished) on Risers approved size & colour laid in approved pattern set in specified cement sand mortar 1:2 base complete in all respect as shown on the drawings & specifications.	Sq.m.	60	12,500	750,000	60	12,000	720,000	0.00	12,000	-	30,000
04-41C	Granite tile skirting 100mm high using tile of approved size, colour and quality laid in approved pattern including rough base plaster complete in all respect as shown on the drawings & specifications.	Sq.m.	20	10,500	210,000	20	13,000	260,000	0.00	13,000	-	(50,000)

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		Unit	Quantity	Rate	Amount (Rs) [A]	Quantity	Rate	Amount (Rs) [B]	Quantity	Rate	Amount (Rs) [C]	Difference [A-B]
04-42C	PVC tile Cladding using tile of approved size, colour and quality laid in approved pattern including rough base plaster complete in all respect as shown on the drawings & specifications.	Sq.m.	5	2,500	12,500	5	2,500	12,500	0.00	2,500	-	-
04-43C	Two coats of hot bitumen grade 10/20 applied at the rate of 1 kg./Sq.m. per coat to all exposed structural concrete surfaces in contact with earth.	Sq.m.	2,520	520	1,310,400	2,520	270	680,400	0.00	270	-	630,000
04-44C	Water proofing & Built-up roofing over roof slab	Sq.m.	332	4,500	1,494,000	332	350	116,200	0.00	350	-	1,377,800
04-45C	Crystalin waterproofing slurry at the rate of 1 kg./Sq.m. per coat to all exposed structural concrete surfaces.	Sq.m.	35	1,200	42,000	35	300	10,500	0.00	300	-	31,500
04-46C	25mm th Polystyrene sheet High Density of 32 kg./Sq.m. to all exposed structural concrete surfaces.	Sq.m.	28	985	27,580	28	500	14,000	0.00	500	-	13,580
04-47C	Two Layer of self Adhesive memberane Hy grip (P-2000-SBS) to all exposed structural concrete surfaces.	Sq.m.	35	2,425	84,875	35	1,500	52,500	14.40	1,500	21,600	32,375
04-48C	False Ceiling 100mm wide perforated metalic strip (Dampa or Eq.) aluminium panel	Sq.m.	950	4,450	4,227,500	950	800	760,000	0.00	800	-	3,467,500
04-49C	Plastic emulsion paint of approved make, quality, colour/ shade including wall sealer, primer, surfaces preparation to specified interior surfaces complete in all respect as shown on the drawings and specifications.	Sq.m.	2735	500	1,367,500	2735	600	1,641,000	0.00	600	-	(273,500)
04-50C	Weather resistant paint of approved make, quality, colour/ shade including surfaces preparation to specified exterior surfaces complete in all respect as shown on the drawings and specifications.	Sq.m.	879	400	351,600	879	600	527,400	0.00	600	-	(175,800)
04-51C	Insulated polycarbonated multi-wall sheeting	Sq.m.	65	4,500	292,500	65	700	45,500	0.00	700	-	247,000
04-52C	Counter signs nickle complete as per drawing	Sq.m.	1	250,000	250,000	1	16,000	16,000	3.00	16,000	48,000	234,000

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		Unit	Quantity	Rate	Amount (Rs) [A]	Quantity	Rate	Amount (Rs) [B]	Quantity	Rate	Amount (Rs) [C]	Difference [A-B]
04-52C	Ticket Counter	Rm	6	50,000	300,000	6	17,000	102,000		17,000	-	198,000
	Total				**81,485,935**			**56,971,500**			**29,064,891**	**24,514,435**
	Plumbing Works											
4-1p	PPR cold and hot water pipes											-
a	15 mm	RM	12	200	2,400	12	160	1,920		160	-	480
b	25 mm	RM	10	230	2,300	10	300	3,000		300	-	(700)
4-2p	Bronze gate valve				-			0			-	-
a	25 mm	No	4	4,000	16,000	4	2,350	9,400		2,350	-	6,600
b	50 mm	No	4	11,000	44,000	4	12,500	50,000		12,500	-	(6,000)
4-3p	CP brass bib tap				-			0			-	-
a	15 mm	No	4	1,000	4,000	4	600	2,400		600	-	1,600
4-4p	Stop cock brass chromium (15 mm)	No	8	1,200	9,600	8	700	5,600		700	-	4,000
4-5p	Europeon water closet	No	4	16,500	66,000	4	10,500	42,000		10,500	-	24,000
4-6p	Pedestal type wash basin	No	4	10,000	40,000	4	8,200	32,800		8,200	-	7,200
4-7p	Imported glass mirror	Sq.m.	4	400	1,600	4	11,500	46,000		11,500	-	(44,400)
4-8p	Towel rail	No	4	2,000	8,000	4	1,150	4,600		1,150	-	3,400
4-9p	Soap tray	No	4	1,850	7,400	4	800	3,200		800	-	4,200
4-10p	uPVC soil waste and vent pipes				-			0			-	-
a	100 mm	RM	20	450	9,000	20	1,950	39,000		1,950	-	(30,000)
b	75 mm	RM	24	840	20,160	24	1,500	36,000		1,500	-	(15,840)
c	32 mm	RM	16	1,310	20,960	16	420	6,720		420	-	14,240
4-11p	uPVC floor drain (75 mm)	No	4	1,500	6,000	4	1,800	7,200		1,800	-	(1,200)
4-12p	uPVC floor trap (75 mm)	No	4	1,500	6,000	4	1,300	5,200		1,300	-	800
4-13p	uPVC floor cleanout	No	4	1,800	7,200	4	600	2,400		600	-	4,800
4-14p	Water level indicator	No	2	15,000	30,000	2	5,000	10,000		5,000	-	20,000
4-15p	Cast iron cover with frames (600 x 600 mm)	No	2	20,500	41,000	2	3,000	6,000		3,000	-	35,000
4-16p	Galvanized MS ladder rungs for OHT	No	12	650	7,800	12	380	4,560		380	-	3,240
4-17p	GI U turn vent pipe (100 mm dia)	No	2	5,000	10,000	2	7,200	14,400		7,200	-	(4,400)
4-18p	PE overflow pipe(12.5 bars) 50 mm	RM	2	270	540	2	270	540		270	-	-
4-19p	Horizantal centrifugal potable water pumps	No	2	120,000	240,000	2	685,000	1,370,000		685,000	-	(1,130,000)
4-20p	Seamless black steel pipe (50 mm dia)	RM	14	2,500	35,000	14	2,400	33,600		2,400	-	1,400
4-21p	Float valve (50 mm dia)	No	2	15,000	30,000	2	32,000	64,000		32,000	-	(34,000)
4-22p	Fiber glass water tank (300 gallons)	No	4	18,000	72,000	4	23,500	94,000		23,500	-	(22,000)

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4-23p	PE pipes (12.5 bars)				-			0			-	-
a	25 mm	RM	28	90	2,520	28	82	2,296		82	-	224
b	50 mm	RM	4	270	1,080	4	290	1,160		290	-	(80)
4-24p	uPVC drainage pipe & fittings (150 mm)	RM	28	1,850	51,800	28	1,650	46,200		1,650	-	5,600
4-25p	Gully trap in chamber (300 x 300 mm)	No	4	5,500	22,000	4	3,000	12,000		3,000	-	10,000
4-26p	PE pipes (12.5 bars)				-			0			-	-
a	25 mm	RM	170	90	15,300	170	82	13,940		82	-	1,360
b	50 mm	RM	36	270	9,720	36	270	9,720		270	-	-
4-27p	Bronze gate valve (50 mm)	No	2	11,000	22,000	2	19,500	39,000		19,500	-	(17,000)
4-28p	Black steel pipe including fittings				-			0			-	-
a	25 mm	RM	60	1,250	75,000	60	1,250	75,000		1,250	-	-
b	50 mm	RM	20	2,500	50,000	20	2,400	48,000		2,400	-	2,000
	Total				**986,380**			**2,141,856**				**-1,155,476**
	Electrical Works											
04-1E	80 KVA 415 Volt Prime Power Rating LVD.G Set with sound proof canopy including control / instrument pannels and all control wire to LT. Switch Boards Skid mounted fuel day tank and all piping accessories, complet with foundation of set, related civil work e.t.c. complete in all respects	Job	2	3,663,750	7,327,500	2	3,727,000	7,454,000	1.80	3,727,000	6,708,600	(126,500)
04-2E	Automatic transfer switch/auto mains falure "ATS / AMF" pannel 150-4 pole for the above DG set complete with all control are required	Job	2	269,100	538,200	2	511,000	1,022,000	1.80	511,000	919,800	(483,800)
04-3E	Spare parts for D.G Set as per Appendix-II to Bill of Quantities.	Lot	2	242,190	484,380	2	160,000	320,000	1.60	160,000	256,000	164,380
04-4E	foundation, related civil works and all accessories, etc. complete in all respects:				-			0			-	-
	a) LT-BS-3 including PFI	Job	1	630,525	630,525	1	372,000	372,000	0.80	372,000	297,600	258,525
	b) LT-BS-4 including PFI	Job	1	630,525	630,525	1	615,000	615,000	0.80	615,000	492,000	15,525
	c) ELT-BS-3 including PFI	Job	1	323,625	323,625	1	930,000	930,000	0.80	930,000	744,000	(606,375)
	d) ELT-BS-4 including PFI	Job	1	323,625	323,625	1	840,000	840,000	0.80	940,000	752,000	(516,375)

BRTS ABDUL SATTAR EDHI LINE (FORMERLY BRTS ORANGE LINE)
Package - 2 : M/s KNK Pvt. Ltd.
Comparative Statement

Code No	Description	Engineer's Estimate				Bill of Quantities (BOQ)			Current Work Done Status			
		Unit	Quantity	Rate	Amount (Rs) [A]	Quantity	Rate	Amount (Rs) [B]	Quantity	Rate	Amount (Rs) [C]	Difference [A-B]
04-5E	Fowwing LT Distribution Boards / Sub Main Distribution Boards (as per single line diagrams shown on drawings) recessed/surface mounted including all accessories related civil work etc.				-			0			-	-
	a) LDB-BS-3	Job	1	195,000	195,000	1	95,000	95,000	0.80	95,000	76,000	100,000
	b) LDB-BS-4	Job	1	195,000	195,000	1	68,000	68,000	0.80	68,000	54,400	127,000
	c) PDB-BS-3	Job	1	200,000	200,000	1	98,000	98,000	0.80	98,000	78,400	102,000
	d) PDB-BS-4	Job	1	200,000	200,000	1	93,000	93,000	0.80	93,000	74,400	107,000
	e) UDB-3	Job	1	32,750	32,750	1	78,000	78,000	0.80	78,000	62,400	(45,250)
	f) Udb-4	Job	1	32,750	32,750	1	70,000	70,000	0.80	70,000	56,000	(37,250)
04-6E	Fowwing LT Outdoor Distribution Boards / Sub Main Distribution Boards (as per single line diagrams shown on drawings) recessed/surface /floor mounted including all accessories related civil work			32,750	-			0			-	-
	a) LTOD-3	Job	1	200,000	200,000	1	48,000	48,000	0.80	48,000	38,400	152,000
	b) LTOD-4	Job	1	190,000	190,000	1	51,000	51,000	0.80	51,000	40,800	139,000
04-7E	Following MCC (as per single line diagram shown on drawing) including all control wiring, foundation mounting arrangement, related civil work and accessories, etc. complete in all respects.				-			0			-	-
	a) MCC-PW3	Job	1	281,200	281,200	1	154,000	154,000	0.80	154,000	123,200	127,200
	b) MCC-PW4	Job	1	281,200	281,200	1	165,000	165,000	0.80	165,000	132,000	116,200
04-8E	Follwing LED or compact fluorescent or high intensity discharge light fixtures installed on surface / wall complete with all relevant installed material such as lamp holders, driver, starters, ignitors capacitot, hanging arrangements as applicable, etc. including all relevant installation mater as required and apporved by the engineer.				-			0			-	-
	a) Type-A2	No	64	9,750	624,000	64	3,400	217,600	51.20	3,400	174,080	406,400
	b) Type-A4	No	12	8,250	99,000	12	3,200	38,400	9.60	3,200	30,720	60,600
	c) Type-D1	No	40	5,500	220,000	40	2,600	104,000	32.00	2,600	83,200	116,000

BRTS ABDUL SATTAR EDHI LINE (FORMERLY BRTS ORANGE LINE)
Package - 2 : M/s KNK Pvt. Ltd.
Comparative Statement

Code No	Description	Engineer's Estimate				Bill of Quantities (BOQ)			Current Work Done Status			
		Unit	Quantity	Rate	Amount (Rs) [A]	Quantity	Rate	Amount (Rs) [B]	Quantity	Rate	Amount (Rs) [C]	Difference [A-B]
	d) Type-EX	No	32	11,625	372,000	32	5,300	169,600	25.60	5,300	135,680	202,400
	e) Type-A5	No	60	15,000	900,000	60	3,000	180,000	48.00	3,000	144,000	720,000
04-9E	Following size of single core /multi core pvc insulated and pvc sheathed, amounred/ unamounred copper conductor cables in already installed surface mounted/concealed GI/PVC conduit or underground PVC pipe or in already excavated trenches or concrete trench or on cable trays, for power and				-			0			-	-
	a) 1 Core, 16 sq. mm PVC/PVC	RM	3,000	390	1,170,000	3,000	300	900,000	2400.00	300	720,000	270,000
	b) 4 Core, 10 sq. mm PVC/PVC	RM	400	925	370,000	400	800	320,000	320.00	800	256,000	50,000
	c) 4 Core, 25 sq. mm PVC/PVC	RM	100	1,410	141,000	100	1,500	150,000	80.00	1,500	120,000	(9,000)
	d) 4 Core, 35 sq. mm PVC/PVC	RM	100	1,930	193,000	100	2,000	200,000	80.00	2,000	160,000	(7,000)
04-10E	wiringof light circuits from distribution board (DB) to point/switch including wiring between switches in the same circuit with 3(1x2.5 sq.mm single core capper conductor PVC cable complete with appropriate size surface G.I conduit and accessories rtc, complete in all respect	No	18	6,500	117,000	18	3,200	57,600	14.40	3,200	46,080	59,400
04-11E	wiring from light exhaust fan point to switch with 3(1x1.5 sq.mm) single core copperconductor PVC cable including appropriate size surface G.I conduit, ceiling rose, 10 Amps light control gang switch, sheet steel back box,3 core flexible cable and all accessories etc. complete in all respecct.	No	70	4,000	280,000	70	1,200	84,000	56.00	1,200	67,200	196,000
04-12E	Same as above item 04-11E but wiring from point to point	No	90	3,000	270,000	90	800	72,000	72.00	800	57,600	198,000
04-13E	wiring of distribution Board (DB) to contactor controlled, first light point with 3(1x2.5 sq.m) single core copper conductor, PVC cable including appropriate size surface G.I conduits and	No	12	6,500	78,000	12	3,200	38,400	9.60	800	7,680	39,600

BRTS ABDUL SATTAR EDHI LINE (FORMERLY BRTS ORANGE LINE)
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Comparative Statement

Code No	Description	Engineer's Estimate				Bill of Quantities (BOQ)			Current Work Done Status			
		Unit	Quantity	Rate	Amount (Rs) [A]	Quantity	Rate	Amount (Rs) [B]	Quantity	Rate	Amount (Rs) [C]	Difference [A-B]
04-14E	wiring from light point to point (contactor controlled) with 3(1x2.5 sq.m) single core copper conductor PVC cable including appropriate size surface G.I conduit and all accessories etc., complete in all respect.	No	56	4,000	224,000	56	600	33,600	44.80	600	26,880	190,400
04-15E	Wiring from distribution board (DB) to impulse relay controlled first point with 3(1x2.5 sq.mm) single core copper conductor, PVC cable complete with appropriate size surface G.I conduit and all accessories et., complete in all respects.	No	14	6,500	91,000	14	2,600	36,400	11.20	2,600	29,120	54,600
04-16E	wiring from light point to point (Impules relay controlled) with 3(1x2.5 sq.m) single core PVC cable in appropriate size surface G.I conduit inlcuding all accessories	No	34	4,000	136,000	34	700	23,800	27.20	700	19,040	112,200
04-17E	Wiring of 16A schuko/15A 3Pin/3A Spur/socket outlet with following size core, copper conductor, PVC cable complete with appropriate size suface/conceaed PVC conduit and all accessories etc., complete in all respects.				-			0			-	-
	a) form distribution Board (DB) to outlet with 3(1x2.5sq.mm) cable	No	28	6,000	168,000	28	3,800	106,400	22.40	3,800	85,120	61,600
	b) form outlet to outlet with 3(1x2.5sq.mm) cable	No	58	3,500	203,000	58	1,200	69,600	46.40	1,200	55,680	133,400
04-18E	Wiring of 16A sckuko/15A 3 pin/13A spur/socket outlet with following size single core, copper conductor, PVC cable complete with appropriate size surface G.I conduit and all accessorise etc. complete in all respects.				-			0			-	-
	a) form distribution Board (DB) to outlet with 3(1x2.5sq.mm) cable	No	2	6,000	12,000	2	3,400	6,800	1.60	3,400	5,440	5,200
	b) form outlet to outlet with 3(1x2.5sq.mm) cable	No	14	3,500	49,000	14	1,100	15,400	11.20	1,100	12,320	33,600

BRTS ABDUL SATTAR EDHI LINE (FORMERLY BRTS ORANGE LINE)
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Comparative Statement

Code No	Description	Engineer's Estimate				Bill of Quantities (BOQ)			Current Work Done Status			
		Unit	Quantity	Rate	Amount (Rs) [A]	Quantity	Rate	Amount (Rs) [B]	Quantity	Rate	Amount (Rs) [C]	Difference [A-B]
04-19E	Wiring from distribution board (DB) to 20A spur outlet with 3(1x4.0 Sq.mm) cable PVC cable complete with appropriate size surface/concealed PVC conduit and all accessories etc., complete in all respects.	No	4	8,000	32,000	4	6,300	25,200	3.20	6,300	20,160	6,800
04-20E	Wiring from distribution board (DB) to 16A SP&N, 250 voltsbreak switch in weather proof enclosure with 3(1x4.0 sq.mm) single core copper conductor PVC cable complete with appropriate size concealed/surface PVC conduit and all accessories etc. complete in all respect.	No	22	8,000	176,000	22	6,300	138,600	17.60	6,300	110,880	37,400
04-21E	wiring from distribution board (DB) to 25A, SP&N+E, 250 Volts break switch in weather proof enclosure with 3 (1x60 sq.mm) single core copper conductor PvC cable complete with appropriate size concealed/surface PVC conduit and all accessories etc. complete in all respect..	No	4	12,000	48,000	4	8,500	34,000	3.20	8,500	27,200	14,000
04-22E	Wiring of 32A, 250 Volts, 1 phase, 3 pin industrial switch socket outlet from Distributrial Board with 3(1x6.0 Sq.mm) Single core copper condutor PVC cable in appropriate size surface/concealed PVC conduit and all accessories etc., Complete in all respects.	No	4	12,000	48,000	4	8,500	34,000	3.20	8,500	27,200	14,000
04-23E	16Amp, 250Volt, 2 Pin+earth, schuko socket outlet with sheet steel back box and all accessories.	No	74	1,000	74,000	74	850	62,900	59.20	850	50,320	11,100
04-24E	13 Amps, 250 volts, spur outlet with sheet steel back box and all accessories.	No	28	1,500	42,000	28	600	16,800	22.40	600	13,440	25,200
04-25E	20 Amps, 250 Volts, spur outlet with sheet steel back box and all accessories.	No	4	2,000	8,000	4	700	2,800	3.20	700	2,240	5,200

BRTS ABDUL SATTAR EDHI LINE (FORMERLY BRTS ORANGE LINE)
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Comparative Statement

Code No	Description	Engineer's Estimate				Bill of Quantities (BOQ)			Current Work Done Status			
		Unit	Quantity	Rate	Amount (Rs) [A]	Quantity	Rate	Amount (Rs) [B]	Quantity	Rate	Amount (Rs) [C]	Difference [A-B]
04-26E	32 Amps, 250 Volts, 3 pin Industrial type socket outlet with matching plug, sheet steel back box and all accessories.	No	4	3,000	12,000	4	1,600	6,400	3.20	1,600	5,120	5,600
04-27E	Following size (Internal Diameter) of unerground uPVC class 'D' pipes including all accessories, pipe range spacers, pull rpoe, and bed excavation, complete in all respects.				-			0			-	-
	a) 150 mm dia	RM	200	2,400	480,000	200	3,200	640,000	160.00	3,200	512,000	(160,000)
	b) 100 mm dia	RM	400	1,610	644,000	400	2,600	1,040,000	320.00	2,600	832,000	(396,000)
	c) 50 mm dia	RM	1,400	410	574,000	1,400	9,500	13,300,000	1120.00	9,500	10,640,000	(12,726,000)
04-28E	Following size of single core PVC insulated copper conductor cable as erth continuity conductor (ECC) Installed on surface or on already installed cable tray or on already installed pipe/conduits or in trench etc.				-			0			-	-
	a) 10 sq.mm	RM	1,400	200	280,000	1,400	150	210,000	1120.00	150	168,000	70,000
	b) 16 sq.mm	RM	200	300	60,000	200	300	60,000	160.00	300	48,000	-
	c) 70 sq.mm	RM	100	1,260	126,000	100	700	70,000	80.00	700	56,000	56,000
04-29E	600 mm X 600 mm X 3 mmm tin plated copper plate type earth electrode including 2x70 sq.mm PVC copper conductor cable as earthing lead, inspection chamber with medium duty C.I cover, 50mm dia medium duty G.I pipe	No	8	40,000	320,000	8	27,000	216,000	6.40	27,000	172,800	104,000
04-30E	Earth connecting point with all accessories.	No	4	5,000	20,000	4	5,300	21,200	3.20	5,300	16,960	(1,200)
04-31E	Following size perforated G.I Sheet cable trays including cover, joints, bend, mopunting brackets hanger complete			1,020	-			0			-	-
	a) 100 mm X 50 mm	RM	50	1,020	51,000	50	1,200	60,000	40.00	1,200	48,000	(9,000)
	b) 150 mm X 50 mm	RM	50	1,250	62,500	50	1,700	85,000	40.00	1,700	68,000	(22,500)
04-32E	14" sweep, single phase, 250V, wall bracket fan including fan speed regulators/dimmers complete with fan hook and all mounting accessories, as required, complete in all	No	8	4,000	32,000	8	3,800	30,400	6.40	3,800	24,320	1,600

BRTS ABDUL SATTAR EDHI LINE (FORMERLY BRTS ORANGE LINE)
Package - 2 : M/s KNK Pvt. Ltd.
Comparative Statement

Code No	Description	Engineer's Estimate				Bill of Quantities (BOQ)			Current Work Done Status			
		Unit	Quantity	Rate	Amount (Rs) [A]	Quantity	Rate	Amount (Rs) [B]	Quantity	Rate	Amount (Rs) [C]	Difference [A-B]
04-33E	56' sweep, single phase, 250V, ceiling fan including fan speed regulators/ dimmers, fan hook, 4'-0" rod extension and all mounting accessories, as required, complete in all respects.	No	32	5,500	176,000	32	3,600	115,200	25.60	3,600	92,160	60,800
04-34E	8" dia single phase, 250V exhaust fans with back draft dampers, anti-vermin screen mounting accessories etc., including making opening in wall and making surface good, complete in all respects.	No	8	4,500	36,000	8	2,000	16,000	6.40	2,000	12,800	20,000
04-35E	following rating online type Uninterruptable power supply (UPS) with 30 minute backup, 1 phase input, 1 phase output, 230 Volts, 50 Hz including static by pass, manual by pass switch, input/output panels with all interconnecting wiring, batteries with enclosure, battery breaker etc., complete in all respects as approved by the Engineer.				-			0			-	-
	a) 5 kVA	No	2	550,000	1,100,000	2	287,000	574,000	1.60	287,000	459,200	526,000
04-36E	Following rating SP&N/TP&N load break switches AC-3 duty in werther proof enclosure of the following rating.				-			0			-	-
	a) 16 Amp, SP&N+E	No	22	5,500	121,000	22	2,800	61,600	17.60	2,800	49,280	59,400
	b) 25 Amp, SP&N+E	No	4	5,500	22,000	4	3,800	15,200	3.20	3,800	12,160	6,800
	c) 63 Amp, SP&N+E	No	12	11,000	132,000	12	4,300	51,600	9.60	4,300	41,280	80,400
	d) type MH-A	No	2	84,800	169,600	2	4,000	8,000	1.60	4,000	6,400	161,600
04-37E	25 mm dia PVC conduit installed concealed including all mounting and installation accessories for installation of cables by ITS Contractor.	RM	750	94	70,500	750	100	75,000	600.00	100	60,000	(4,500)
04-38E	25 mm dia G.I conduit installed on surface including all mounting and installation accessories for installation of cables bu ITS Contractor.	RM	1,870	339	633,930	1,870	450	841,500	1496.00	450	673,200	(207,570)
04-39E	Plastic white coverplate with sheet steel back box including all installation accessories.	No	66	369	24,354	66	500	33,000	52.80	500	26,400	(8,646)
	Total				**23,358,164**			**33,141,000**			**27,417,360**	**-9,782,836**

BRTS ABDUL SATTAR EDHI LINE (FORMERLY BRTS ORANGE LINE)
Package - 2 : M/s KNK Pvt. Ltd.
Comparative Statement

Code No	Description	Engineer's Estimate				Bill of Quantities (BOQ)			Current Work Done Status			
		Unit	Quantity	Rate	Amount (Rs) [A]	Quantity	Rate	Amount (Rs) [B]	Quantity	Rate	Amount (Rs) [C]	Difference [A-B]
	MECHANICAL WORKS											
04-1M	Supply, installation, testing, comissioning and maintenanace (during defect liability period) of brand new passenger lifts (L1,L2,L-4,L-5) having capacity of 1000 kg/13 persons, speed 1.0 m/s, 2 stops/ 2 openings, total travel 5.55 m, including car, hoisting machinary, counter-weight, supports brackets, embedded parts, access ladder, separator screen & well triming girders complete in all respect as per specifications.	Nos.	4	6,600,000	26,400,000	4	8,275,000	33,100,000	3	8,275,000	23,583,750	(6,700,000)
04-2M	Supply, installation, testing, comissioning and maintenanace (during defect liability period) of brand new passenger lifts (L3) having capacity of 1000 kg/13 persons, speed 1.0 m/s, 2 stops/ 2 openings, total travel 5.30 m, including car, hoisting machinary, counter-weight, supports brackets, embedded parts, access ladder, separator screen & well triming	Nos.	2	6,600,000	13,200,000	2	8,275,000	16,550,000	2	8,275,000	15,722,500	(3,350,000)
	ESCALATORS				-							-
04-3M	Supply, installation, testing, comissioning and maintenanace (during defect liability period) of brand new Full Outdoor Escalator (E1,E-2,E-4) having steps width of 1000 mm with capacity of 9000 persons/ hr, rise of 5.55 m, 30° inclination, speed 0.5 m/s, continuous and automatic control with reversible tavel including option of crawling speed complete in all respect as per specifications.	Nos.	3	17,600,000	52,800,000	3	13,475,000	40,425,000	2	13,475,000	25,602,500	12,375,000

BRTS ABDUL SATTAR EDHI LINE (FORMERLY BRTS ORANGE LINE)
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Code No	Description	Engineer's Estimate				Bill of Quantities (BOQ)			Current Work Done Status			
		Unit	Quantity	Rate	Amount (Rs) [A]	Quantity	Rate	Amount (Rs) [B]	Quantity	Rate	Amount (Rs) [C]	Difference [A-B]
04-4M	Supply, installation, testing, comissioning and maintenanace (during defect liability period) of brand new Full Outdoor Escalator (E-3) having steps width of 1000 mm with capacity of 9000 persons/ hr, rise of 5.30 m, 30° inclination, speed 0.5 m/s, continuous and automatic control with reversible tavel including option of crawling speed complete in all respect as per specifications.	Nos.	2	17,600,000	35,200,000	2	13,475,000	26,950,000	2	13,475,000	25,602,500	8,250,000
	Total				**127,600,000**			**117,025,000**			**90,511,250**	**10,575,000**
	Total Bus Stations (Code 04)				**233,430,479**			**209,279,356**			**146,993,501**	**24,151,123**
5	**LANDSCAPING**											
05-1c	Plantation and development of the following trees, shurbs and ground spreads											-
	Conocarpus	No	1,000	1,687	1,687,000	1,000	1,800	1,800,000	1000.00	1,800	-	(113,000)
	Total Code 5				**1,687,000**			**1,800,000**			-	**- 113,000**
A	**FIELD INVESTIGATION**											
A1	Mobilization and demobilization of rotary	LS	1	50,000	50,000	1	400,000	400,000	1	400,000		(350,000)
A2	Drilling of boreholes				-			0				
a	0-10 m	LS	40	1,500	60,000	40	8,000	320,000	50	8,000	400,000	(260,000)
b	10-20 m	LS	20	2,500	50,000	20	17,000	340,000	15	17,000	255,000	(290,000)
c	20-25 m	LS	5	6,000	30,000	5	30,000	150,000	0	30,000	-	(120,000)
A3	Performance of SPT as per ASTM standard	No	45	1,200	54,000	45	7,000	315,000	20	7,000	140,000	(261,000)
A4	Collection of rock sample	No	20	2,000	40,000	20	5,000	100,000	29	5,000	145,000	(60,000)
A5	Excavation of eight (8) test pits	LS	16	1,000	16,000	16	3,000	48,000	16	3,000	48,000	(32,000)
A6	Collection of undisturbed block samples	No	8	2,000	16,000	8	2,000	16,000	0	2,000	-	-
A7	Performance of field density test (FDT)	No	16	800	12,800	16	2,500	40,000	16	2,500	40,000	(27,200)
A8	Collection of composite bulk samples	No	4	1,000	4,000	4	2,500	10,000	8	2,500	20,000	(6,000)
A9	Collection of water samples	No	2	500	1,000	2	2,500	5,000	2	2,500	5,000	(4,000)
A10	Submission of Geotechnical Investigation report (05 copies)	No	1	50,000	50,000	1	200,000	200,000	1	200,000	200,000	(150,000)
	Total				**383,800**			**1,944,000**			**1,253,000**	**(1,560,200)**

BRTS ABDUL SATTAR EDHI LINE (FORMERLY BRTS ORANGE LINE)
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Comparative Statement

Code No	Description	Engineer's Estimate				Bill of Quantities (BOQ)			Current Work Done Status			
		Unit	Quantity	Rate	Amount (Rs) [A]	Quantity	Rate	Amount (Rs) [B]	Quantity	Rate	Amount (Rs) [C]	Difference [A-B]
B	LABORATORY TESTING											
B1	Sieve analysis	No	20	600	12,000	20	2,000	40,000	12	2,000	24,000	(12,000)
B2	Hydrometer analysis	No	8	1,000	8,000	8	2,500	20,000	8	2,500	20,000	(12,000)
B3	Liquid and Plastic limit	No	10	700	7,000	10	2,500	25,000	10	2,500	25,000	(18,000)
B4	Bulk density and dry density	No	10	500	5,000	10	3,000	30,000	8	3,000	24,000	(19,000)
B5	Consolidation with swell potential	No	4	5,000	20,000	4	5,000	20,000	0	5,000	-	20,000
B6	Direct shear test	No	4	2,000	8,000	4	3,000	12,000	4	3,000	12,000	(4,000)
B7	Unconfined compression and point load	No	5	1,500	7,500	5	5,000	25,000	5	5,000	25,000	(17,500)
B8	Permeability test	No	2	5,000	10,000	2	10,000	20,000	0	10,000	-	10,000
B9	Modified AASHTO Compaction	No	8	1,800	14,400	8	6,000	48,000	8	6,000	48,000	(33,600)
B10	3 point soaked CBR	No	8	5,000	40,000	8	8,000	64,000	8	8,000	64,000	(24,000)
B11	Sulphate content of soil	No	4	600	2,400	4	4,000	16,000	4	4,000	16,000	(13,600)
B12	Chloride content of soil	No	4	500	2,000	4	3,000	12,000	4	3,000	12,000	(10,000)
B13	Organic matter content of soil	No	4	500	2,000	4	3,000	12,000	4	3,000	12,000	(10,000)
B14	Complete chemical analysis	No	2	1,250	2,500	2	25,000	50,000	2	25,000	50,000	(47,500)
					140,800			**394,000**			**332,000**	**(191,200)**
					524,600			**2,338,000**			**1,585,000**	**(1,060,400)**
					557,844,207			**494,440,424**			**415,216,781**	**142,627,427**
	ADDITIONAL WORK- WATER SUPPLY SYSTEM POLYETHYLENE (PN-10) PIPES & PIPE FITTINGS											
	EARTH WORKS											
	Ref. Spec. No. 1100											
07--1	Excavation of trenches in all kinds of sub-surface material including disposal of surplus/rejected excavated material to designated places and dewatering.											
	0-2m	Cu.m.	1947			1947	500	973,500	1184.23	500	592,115	(592,115)
	Upto 2 - 4 meter	Cu.m.	92			92	600	55,200	16.18	600	9,708	(9,708)
07--2	Backfill with selected material obtained from excavation.	Cu.m.	1580			1580	330	521,400	525.21	330	173,319	(173,319)
07--3	Fine sand bedding material obtained from outside source.	Cu.m.	300			300	2200	660,000	113.97	2,200	250,734	(250,734)
	PLAIN AND REINFORCED CONCRETE							0	0		-	-

BRTS ABDUL SATTAR EDHI LINE (FORMERLY BRTS ORANGE LINE)
Package - 2 : M/s KNK Pvt. Ltd.
Comparative Statement

Code No	Description	Engineer's Estimate				Bill of Quantities (BOQ)			Current Work Done Status			
		Unit	Quantity	Rate	Amount (Rs) [A]	Quantity	Rate	Amount (Rs) [B]	Quantity	Rate	Amount (Rs) [C]	Difference [A-B]
	Ref. Spec.No.2300,2100							0	0		-	-
07--4	Class 'E' concrete using ordinary portland cement in foundatios	Cu.m.	6			6	10000	60,000	4.55	10,000	45,500	(45,500)
								0	0		-	-
07--5	Class 'B' reinforced concrete using ordinary Portland cement in following sub structures:							0	0		-	-
	a) Base Slab	Cu.m.	12			12	13000	156,000	8.01	13,000	104,130	(104,130)
	b) Walls	Cu.m.	66			66	14000	924,000	27.75	14,000	388,500	(388,500)
	c) Top Slab	Cu.m.	12			12	14000	168,000	5.72	14,000	80,080	(80,080)
07--6	Hot rolled worked billet steel bars conforming to ASTM A-615 with specified characteristic strength of not less than 414 Mpa; including cutting, bending, binding, placing of steel reinforcement as shown on the drawings or as directed by the Engineer.	tonne	11			11	122000	1,342,000	5.2	122,000	634,400	(634,400)
	Ref Spec. No. 5213.							0	0		-	-
07--7	P.E Pipes (10 bars pressure) confirming to ISO4427 and fittings conforming to ISO 3458 of following diameters.							0			-	-
	a) 100 mm	R.m	125			125	2,160	270,000	70.07	2,160	151,351	(151,351)
	b) 150 mm	R.m	550			550	4,025	2,213,750	829.48	4,025	3,338,661	(3,338,661)
	c) 200 mm	R.m	185			185	6,055	1,120,175	79.20	6,055	479,556	(479,556)
	d) 300 mm	R.m	250			250	14,200	3,550,000	240.30	14,200	3,412,260	(3,412,260)
	e) 400 mm	R.m	185			185	22,450	4,153,250	164.70	22,450	3,697,515	(3,697,515)
	VALVES AND APPURTENANCES							0			-	-
	Ref. Spec. No. 5220							0			-	-
07--8	Cast iron flanged gate valve of the following diameter as per BS 5163 or equivalent, PN-10 of Western European or Japan origin as shown on drawing and as specified.							0			-	-
	a) 100 mm	No.	2			2	63,260	126,520	1.50	63,260	94,620	(94,620)
	b) 150 mm	No.	9			9	95,860	862,740	5.50	95,860	527,230	(527,230)

BRTS ABDUL SATTAR EDHI LINE (FORMERLY BRTS ORANGE LINE)
Package - 2 : M/s KNK Pvt. Ltd.
Comparative Statement

Code No	Description	Engineer's Estimate				Bill of Quantities (BOQ)			Current Work Done Status			
		Unit	Quantity	Rate	Amount (Rs) [A]	Quantity	Rate	Amount (Rs) [B]	Quantity	Rate	Amount (Rs) [C]	Difference [A-B]
	c) 200 mm	No.	3			3	157,980	473,940	3.00	157,980	473,940	(473,940)
	d) 300 mm	No.	4			4	346,800	1,387,200	4.00	346,800	1,387,200	(1,387,200)
	e) 400 mm	No.	3			3	1,428,205	4,284,615	3.00	1,428,205	4,284,615	(4,284,615)
07--9	CI medium duty cover with frame of 600x600mm	Nos.	21			21	3000	63,000	17	3,000	51,000	(51,000)
	STEEL PIPES & PIPE FITTINGS							0			-	-
	Ref Spec. No. 5214.							0			-	-
RA-1	Seamless black steel pipe conforming to ASTM A-53 and fittings conforming to BS 534 of following diameters.							0			-	-
	a) 100 mm	R.m	10.87			10.87	8,284	90,047	10.88	8,284	90,089	(90,089)
	b) 150 mm	R.m	47.49			47.49	14,200	674,358	47.00	14,200	667,400	(667,400)
	c) 200 mm	R.m	0.61			0.61	22,000	13,420	0.61	22,000	13,398	(13,398)
	d) 300 mm	R.m	21.33			21.33	24,918	531,501	20.52	24,918	511,317	(511,317)
	e) 400 mm	R.m	22.96			22.96	30,488	700,004	22.96	30,488	700,004	(700,004)
	M.S FLANGES							0			-	-
7--10	Connection of new pipe line with existing pipe line by MS flanges of the following diameters.							0			-	-
	a) 100 mm	No.	8			8	4,610	36,880	4.00	4,610	18,440	(18,440)
	b) 150 mm	No.	24			24	6,035	144,840	12.00	6,035	72,420	(72,420)
	c) 200 mm	No.	4			4	9,810	39,240	2.00	9,810	19,620	(19,620)
	d) 300 mm	No.	16			16	17,510	280,160	7.00	17,510	122,570	(122,570)
	e) 400 mm	No.	12			12	27,605	331,260	6.00	27,605	165,630	(165,630)
	JOINTING WORK WITH EXISTING WATERLINE							0			-	-
	Ref Spec. No. 5214.							0			-	-
RA-2	Connection of HDPE pipe line with existing pipe line by fixing of M.S Collar with finishes complete in all respects.							0			-	-
	a) 100 mm	No.	2			2	68,256	136,512	2.00	68,256	136,512	(136,512)
	b) 150 mm	No.	9			9	74,031	666,279	6.00	74,031	444,186	(444,186)
	c) 200 mm	No.	3			3	89,406	268,218	1.00	89,406	89,406	(89,406)
	d) 300 mm	No.	4			4	122,826	491,304	3.00	122,826	368,478	(368,478)
	e) 400 mm	No.	2			2	179,708	359,416	2.00	179,708	359,416	(359,416)
	AIR VALVES FOR 33" DIA.							0	0		-	-

BRTS ABDUL SATTAR EDHI LINE (FORMERLY BRTS ORANGE LINE)
Package - 2 : M/s KNK Pvt. Ltd.
Comparative Statement

Code No	Description	Engineer's Estimate				Bill of Quantities (BOQ)			Current Work Done Status			
		Unit	Quantity	Rate	Amount (Rs) [A]	Quantity	Rate	Amount (Rs) [B]	Quantity	Rate	Amount (Rs) [C]	Difference [A-B]
RA-3	Cast iron flanged air valve of the following diameter as per BS 5163 or equivalent, PN-10 of Western European or Japan origin as shown on drawing and as specified.							0	0		-	-
	33" Dia.	No.	2			2	315,000	630,000	2	315,000	630,000	(630,000)
	Total							**28,758,730**			**24,585,321**	**(24,585,321)**
08--1	Providing Laying RCC sewer pipes of the following diameter conforming to ASTM C-76, Class IV, Wall B including fittings, handling, testing, and commissioning complete in all respect as shown on the drawing.							0			-	-
	a)300mm	R.m	900			900	6,305	5,674,500	734.539	6,305	4,631,268	(4,631,268)
	b)375mm	R.m	500			500	6,860	3,430,000	281.394	6,860	1,930,362	(1,930,362)
08--2	Excavation/ cutting in all kinds of sub-surface material including disposal of surplus/ rejected excavated materials to designated places.							0			-	-
	b) 2 - 4 meter depth	Cu.m.	2,302			2,302	600	1,381,200		600	-	-
08--3	Fill & Back fill from Required excavation	Cu.m.	2,055			2,055	330	678,150		330	-	-
08--4	Fine sand bedding including compaction.	Cu.m.	200			200	2,200	440,000		2,200	-	-
08--5	150mm Thick Class 'E' plain concrete using ordinary Portland cement.	Cu.m.	10			10	10,000	100,000	2.286	10,000	22,860	(22,860)
08--6	Class 'B' fairface concrete for following structures using ordinary portland cement	Cu.m.						0			-	-
	a)Base	Cu.m.	23			23	13,000	299,000	3.619	13,000	47,047	(47,047)
	b) Walls	Cu.m.	60			60	14,000	840,000	11.667	14,000	163,338	(163,338)
	c)Cover	Cu.m.	21			21	14,000	294,000	12.96	14,000	181,440	(181,440)
08--7	RCC Class 'B' cover of 600 x 600 mm size using ordinary Portland cement in following sub structures:	Nos.	30			30	3,000	90,000		3,000	-	-

BRTS ABDUL SATTAR EDHI LINE (FORMERLY BRTS ORANGE LINE)
Package - 2 : M/s KNK Pvt. Ltd.
Comparative Statement

Code No	Description	Engineer's Estimate				Bill of Quantities (BOQ)			Current Work Done Status			
		Unit	Quantity	Rate	Amount (Rs) [A]	Quantity	Rate	Amount (Rs) [B]	Quantity	Rate	Amount (Rs) [C]	Difference [A-B]
08--8	Hot rolled worked billet steel bars conforming to ASTM A-615 with specified characteristic strength of not less than 414 Mpa; including cutting, bending, binding, placing of steel reinforcement as shown on the drawings or as directed by the Engineer.	tonne	10.3			10.3	122,000	1,256,600	2.206	122,000	269,132	(269,132)
08--9	20mm dia. MS Ladder rungs galvanised	Nos.	150			150	1,000	150,000		1,000	-	-
	Total							**14,633,450**			**7,245,448**	**(7,245,448)**
	Grand Total							**43,392,180**			**31,830,768**	**(31,830,768)**
	R.A Items							0				-
1	Pavers							0	5286.60	1,892	10,002,247	(10,002,247)
2	Steel Structure for bus stations							0	162.00	310,000	50,220,000	(50,220,000)
3	Electric Lights Single arm							0	9.00	105,133	946,197	(946,197)
4	Electric Lights Double arm							0	49.00	107,861	5,285,189	(5,285,189)
5	Removal of debris							0			953,125	(953,125)
6	New Jersey Barrier								41.40	17,600	728,640	
	Total							**0**			**68,135,398**	**(68,135,398)**
	Grand Total (Contract Price)				**557,844,207**			**537,832,604**			**515,182,947**	**42,661,260**
	Escalations + Claims							69,859,643			69,859,643	(69,859,643)
	Total Financial Status				**557,844,207**			**607,692,247**			**585,042,590**	**(27,198,383)**

Package - 3 : M/s Ramzan Construction Pvt. Ltd.

Comparative Statement

Code No	Description	Engineer's Estimate				Bill of Quantities			Actual Work Done			Difference [A-B]
		Unit	Qtty	Rate	Amount (Rs) [A]	BOQ Qtty	Rate	Amount (Rs) [B]	Actual Qtty	Rate	Amount (Rs) [C]	
1	**Platform Screen Doors (PSD)**											
01-1T	Platform screen doors, bus docking system, local monitoring & control system, all electrical and civil works, all interconnecting cables & conduits, any other required essential components / equipment etc. complete in all respect											
a	BRT Station No. 1 having set of 8 doors for 4 buses	Job	1	19,282,833	19,282,833	1	19,000,000	19,000,000	0.2	19,000,000	3,800,000	282,833
b	BRT Station No. 2 having set of 8 doors for 4 buses	Job	1	19,282,833	19,282,833	1	19,000,000	19,000,000	0.2	19,000,000	3,800,000	282,833
c	BRT Station No. 3 having set of 8 doors for 4 buses	Job	1	19,282,833	19,282,833	1	19,000,000	19,000,000	0.2	19,000,000	3,800,000	282,833
d	BRT Station No. 4 having set of 4 doors for 2 buses	Job	1	9,641,416	9,641,416	1	14,000,000	14,000,000	0.2	14,000,000	2,800,000	(4,358,584)
01-2T	Remote monitoring of PSD for bus station (1 to 4) in command & control center (CCC) including all component / equipment etc. all electrical and civil works, all interconnecting cable and conduit. Complete in all respect	Job	1	2,373,833	2,373,833	1	5,400,000	5,400,000	0.2	5,400,000	1,080,000	(3,026,167)
01-3T	Spare parts for minimum two (02) years operation of 28 Nos. Plat Form Screen doors after completion of maintenance / warranty period as per Appendix-II to BOQ.	Lot	1	9,023,787	9,023,787	1	9,147,100	9,147,100	0.2	9,147,100	1,829,420	(123,313)
01-4T	Operation (18 hours/day, 07 day/week & 365 days/year) for two (02) years maintenance / warranty period (full time operational staff included).	Month	24	1,163,083	27,913,992	24	1,400,000	33,600,000	24	1,400,000		(5,686,008)
01-5T	Maintenance for two (02) years maintenance / warranty period	Month	24	340,092	8,162,208	24	600,000	14,400,000	24	600,000		(6,237,792)
	Total Code 01				**114,963,735**			**133,547,100**			**17,109,420**	**(18,583,365)**
2	**Low Voltage Diesel Generator Set**											

Package - 3 : M/s Ramzan Construction Pvt. Ltd.

Comparative Statement

Code No	Description	Engineer's Estimate				Bill of Quantities			Actual Work Done			Difference [A-B]
		Unit	Qtty	Rate	Amount (Rs) [A]	BOQ Qtty	Rate	Amount (Rs) [B]	Actual Qtty	Rate	Amount (Rs) [C]	
02-1E	Supply, installation, testing and commissioning of 350 kVa, 415 volts Prime Power rating LV DG set including control / instrument panels and all control wiring to LT switchboard, skid mounted fuel day tank and all piping accessories, complete with foundation of set, related to civil works etc. complete in all respect.	Job	1	21,645,837	21,645,837	1	21,000,000	21,000,000	0.85	21,000,000	17,850,000	645,837
02-2E	Automatic transfer switch / Auto mains failure (ATS/AMF) Panel 630A-4 pole for the above DG set complete with all controls as required.	Job	1	2,918,227	2,918,227	1	3,500,000	3,500,000	0.5	3,500,000	1,750,000	(581,773)
02-3E	Spare parts for DG set as per Appendix-II to BOQ	Lot	1	146,072	146,072	1	304,200	304,200	1.0	304,200		(158,128)
02-4E	70 Sqmm single core PVC insulated copper conductor cable as earth continuity conductor (ECC) installed on surface or on already installed cable tray or on already	RM	20	2,102	42,040	20	5,000	100,000	20	5,000		(57,960)
02-5E	19 mm dia, 3 meter long copper cladded steel rod type earth electrode including 2x70 Sqmm PVC copper conductor cables as earthing lead, clamp with nuts and bolts, RCC inspection chamber with medium duty CI cover, excavation, backfilling,, and all accessories, etc as shown in drawing, complete in all respect	No	2	33,009	66,018	2	300,000	600,000	1	300,000	300,000	(533,982)
02-6E	Earth connecting point	No	4	39,936	159,744	4	150,000	600,000	2	150,000	300,000	(440,256)
	Total Code 02				**24,977,938**			**26,104,200**			**20,200,000**	**- 1,126,262**
	Total of Code 1 and 2				**139,941,673**			**159,651,300**			**37,309,420**	
	Sindh Sales Tax 13%				**1,273,469**			**6,226,400**			**- 618,425**	
	Grand Total of Code 01 and 02				**141,215,142**			**165,877,700**			**36,690,995**	**-19,709,627**
	Additional Works											
A	**Airconditioners 14 Nos. in IT and ticket rooms**											
03a-1H	Split inverter type (wall mounted Acs)	No				12	261,340.0	3,136,080	12	261,340.0	3,136,080	-

Package - 3 : M/s Ramzan Construction Pvt. Ltd.

Comparative Statement

Code No	Description	Engineer's Estimate				Bill of Quantities			Actual Work Done			Difference [A-B]
		Unit	Qtty	Rate	Amount (Rs) [A]	BOQ Qtty	Rate	Amount (Rs) [B]	Actual Qtty	Rate	Amount (Rs) [C]	
03a-2H	Refrigerant copper piping	RM				72	3,179.0	228,888	72	3,179.0	228,888	-
03b-1H	Split inverter type (wall mounted Acs)	No				2	318,494.0	636,988	2	318,494.0	636,988	-
03b-2H	Refrigerant copper piping	RM				12	3,524.0	42,288	12	3,524.0	42,288	-
	Total of A							**4,044,244**			**4,044,244**	-
B	**Ticket Vending Machines (04 Nos.)**											
04-1C	Floor mounted ticket vending booths (4 No)	No				4	255,250.0	1,021,000	3.2	255,250.0	816,800	**204,200**
04-2C	Fabrication and installation of gloss enamel painted railing shutter	No				4	41,220.0	164,880	3	41,220.0	131,904	**32,976**
	Total of B							**1,185,880**			**948,704**	
C	**Bus Station Benches (32 No)**											
05-1C	Fabrication and installation of floor mounted benches	No				32	76,840.0	2,458,880	32	76,840.0	2,458,880	-
	Total of C							**2,458,880**			**2,458,880**	
D	**Dowel / Rebar**											
06-5C	Fixing of dowel rebar anchorage with chemical anchor (Fischer or approved	No				204	1,728.0	352,512	204	1,728.0	352,512	-
06-8C	Fabrication and installation of MS grills	Kg				2,400	495.0	1,188,000	2,400	495.0	1,188,000	-
06-9C	Fabrication and installation of MS grills	Kg				2,400	495.0	1,188,000	2,400	495.0	1,188,000	-
	Total of D							**2,728,512**			**2,728,512**	
E	**Lights / DBs**											-
07-2E	Type: a LED Lights	No				4.2	12,843.0	53,941	4.2	12,843.0	53,941	-
	Type: H1 LED Lights	No				11.2	44,935.0	503,272	11.2	44,935.0	503,272	-
	Total of E							**557,213**			**557,213**	
F	**Bus Station Sign Boards**											-
08-1a	Type (1900x225 mm)	No				8.0	25,515.0	204,120	8.0	25,515.0	204,120	-

Package - 3 : M/s Ramzan Construction Pvt. Ltd.

Comparative Statement

Code No	Description	Engineer's Estimate				Bill of Quantities			Actual Work Done			Difference [A-B]
		Unit	Qtty	Rate	Amount (Rs) [A]	BOQ Qtty	Rate	Amount (Rs) [B]	Actual Qtty	Rate	Amount (Rs) [C]	
08-1b	Type (700x225 mm)	No				9.0	9,533.0	85,797	9.0	9,533.0	85,797	-
08-2a	Type (1600x300 mm)	No				4.0	28,741.0	114,964	4.0	28,741.0	114,964	-
08-2b	Type (1300x480 mm)	No				8.0	37,128.0	297,024	8.0	37,128.0	297,024	-
08-2c	Type (900x300 mm)	No				14.0	16,280.0	227,920	14.0	16,280.0	227,920	-
08-2d	Type (1000x300 mm)	No				8.0	18,048.0	144,384	8.0	18,048.0	144,384	-
08-3a	Type (800x225 mm)	No				14.0	10,851.0	151,914	14.0	10,851.0	151,914	-
08-4a	Type (4064x800 mm)	No				1.0	180,292.0	180,292	1.0	180,292.0	180,292	-
08-4b	Type (4089x800 mm)	No				1.0	181,295.0	181,295	1.0	181,295.0	181,295	-
08-4c	Type (4114x80 mm)	No				1.0	182,407.0	182,407	1.0	182,407.0	182,407	-
08-4d	Type (4089x800 mm)	No				1.0	181,295.0	181,295	1.0	181,295.0	181,295	-
	Total of F							**1,951,412**			**1,951,412**	-
	Total Additonal Work [A to F]							**12,926,141**			**12,688,965**	**237,176**
	Grand Total				**141,215,142**			**178,803,841**			**49,379,960**	**-37,588,699**

Package-4 : M/s Taj Construction Pvt. Ltd.

Comparative Statement

Code No	Description	Engineer's Estimate				Bill of Quantities			Actual Work Done			Difference [A-B]
		Unit	Qtty	Rate	Amount (Rs) [A]	BOQ Qtty	Rate	Amount (Rs) [B]	Actual Qtty	Rate (Rs.)	Amount (Rs) [C]	
1	**Underground Fuel Storage Tank**											
01-1C	Excavation for foundation in all kinds of sub surface materials upto required depth	Cum	205	1,000	205,000	205	1500	307,500	251.505	1500	377,258	(102,500)
01-2C	Fill and backfill with selected materials obtained from required excavation	Cum	21	675	14,175	21	1000	21,000	36.547	1000	36,547	(6,825)
01-3C	Gravel fill including compaction etc. complete in all respect	Cum	15	4,550	68,250	15	4,000	60,000	15	4,000		8,250
01-4C	Fine dry sand fill including compaction etc. complete in all respect	Cum	67	3,250	217,750	67	3,000	201,000	67	3,000		16,750
01-5C	Class E plain cement concrete using specified cement in foundation etc	Cum	6	9,000	54,000	6	12,000	72,000	5.066	12,000	60,792	(18,000)
01-6C	Class B second stage cement concrete poured with frame etc.	Cum	1	21,500	21,500	1	20,000	20,000	19.54	20,000	390,800	1,500
01-7C	Class B reinforced concrete using specified cement in following structures etc.				-							-
a	Base	Cum	19	21,500	408,500	19	20,000	380,000	17.945	20,000	358,900	28,500
b	Walls	Cum	36	22,800	820,800	36	22,000	792,000	30.336	22,000	667,392	28,800
c	Top Slab	Cum	12	17,500	210,000	12	21,000	252,000	12	21,000		(42,000)
01-8C	Grade 60 deformed hot rolled billet steel bars conforming to ASTM A-615 etc.	tonne	10	315,000	3,150,000	10	320,000	3,200,000	5.873	320,000.0	1,879,360	(50,000)
01-9C	Heavy duty cast iron manhole covers (1000x1000 mm) with frames including fixing and fixing accessories etc	No.	2	188,950	377,900	2	100,000	200,000	1	100,000.0	100,000	177,900
01-10C	Two coats of hot bitumen grade 10/20 @ of 1.0 Kg / Sqm per coat to all specified structural concrete surfaces	Sqm	305	550	167,750	305	700	213,500	183.040	700	128,128	(45,750)

Package-4 : M/s Taj Construction Pvt. Ltd.
Comparative Statement

Code No	Description	Engineer's Estimate				Bill of Quantities			Actual Work Done			Difference [A-B]
		Unit	Qtty	Rate	Amount (Rs) [A]	BOQ Qtty	Rate	Amount (Rs) [B]	Actual Qtty	Rate (Rs.)	Amount (Rs) [C]	
01-11C	Reinforcement of existing paving blocks / tiles including dismantiling/removing of existing paving blocks/tiles including safe	Sqm	75	3,800	285,000	75	3,500	262,500	75	3,500.0		22,500
01-12C	Precast concrete paving block of sizes (300x300x40 mm) laid in existing pattern	Sqm	10	2,850	28,500	10	5,000	50,000	10	5,000		(21,500)
01-1M	Design, fabrication, supply, installation and testing of 25,000 litres (25 Cum) capacity underground fuel storage tank	Job	2	6,500,000	13,000,000	2	2,800,000	5,600,000	2	2,800,000	5,600,000	7,400,000
	Total Code 01				**19,029,125**			**11,631,500**			**9,599,177**	**7,397,625**
2	**Bus Wash Water Treatment and Recycling Plant**											
02-1P	Design, supply, construction, installation, testing, commissioning and handing over of complete one unit package type Bus Wash Water Treatment and recycling plant (capacity 5,000 US gallons / day)	Job	1	19,000,000	19,000,000	1	17,500,000	17,500,000	0.8	17,500,000	14,000,000	1,500,000
02-1E	Motor control center MCC-UGST floor / pedestal mounted IP-65 suitable for outdoor environment as per single line diagram shown in drawing	Job	1	728,590	728,590	1	320,000	320,000	1	320,000		408,590
02-2E	multicore PVC insulated and PVC sheathed, armoured / unarmoured copper conductor cable in already installed surface mounted / concelaed GI/PVC conduit or underground PVC pipes or in already excavated trenches or concrete trench or on cable trays for power and misc wiring including all				-						-	-
a	4 core, 6 Sq.mm. PVC/PVC	RM	10	1,127	11,270	10	2,000	20,000	10	2,000		(8,730)
b	4 core, 16 Sq.mm. PVC/PVC	RM	80	2,001	160,080	80	3,000	240,000	80	3,000		(79,920)

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Comparative Statement

Code No	Description	Engineer's Estimate				Bill of Quantities			Actual Work Done			Difference [A-B]
		Unit	Qtty	Rate	Amount (Rs) [A]	BOQ Qtty	Rate	Amount (Rs) [B]	Actual Qtty	Rate (Rs.)	Amount (Rs) [C]	
02-3E	50 mm (internal dia) of underground uPVC class D pipes	RM	10	1,187	11,870	10	1,000	10,000	33.50	1,000	33,500	1,870
02-4E	Following size of single core PVC insulated copper conductor cables as earth continuity conductor (ECC)				-							-
a	6 Sq.mm	RM	10	251	2,510	10	1,000	10,000	10	1,000		(7,490)
b	16 Sq.mm	RM	80	577	46,160	80	2,000	160,000	80	2,000		(113,840)
c	70 Sqmm	RM	5	2,289	11,445	5	8,000	40,000		8,000		(28,555)
02-5E	600 x 600 x 3 mm tin plated copper plate	No	1	153,048	153,048	1	200,000	200,000	1	200,000		(46,952)
02-6E	Earth connecting point with all accessories	No	1	31,112	31,112	1	100,000	100,000	1	100,000		(68,888)
02-7E	Following triple pole 500 volts moulded case circuit breaker installed in weather proof enclosure	No	1	34,340	34,340	1	10,000	10,000	1	10,000		24,340
	Total Code-02				**20,190,425**			**18,610,000**			**14,033,500**	**1,580,425**
3	**Steel Shed Over Washing Pit**											
03-1C	Tucking the existing surface upto 6 mm deep including cleaning the surface and disposal of tucked materials to	Sqm	3	4,500	13,500	3	5,000	15,000	5.000	5,000	25,000	(1,500)
03-2C	Class B reinforced concrete using specified cement in following structures etc.	Cum	2	23,500	47,000	2	22,000	44,000	4.937	22,000	108,614	3,000
03-3C	Non shrink grout as specified etc. complete in all respect asper specificatio	Cum	1	155,000	155,000	1	135,000	135,000	1.000	135,000		20,000
03-4C	Grade 60 deformed hot rolled billet steel bars conforming to ASTM A-615 etc.	tonne	1	315,000	315,000	1	320,000	320,000	0.975	320,000	311,872	(5,000)
03-5C	Anchorage with epoxy chemical anchor Fischer FIS-EM or approved equivalent	No	120	11,800	1,416,000	120	1,000	120,000	80.000	1,000	80,000	1,296,000
03-6C	Providing and installation of galvanized corrugated steel sheet 0.7 mm thick	Sqm	295	12,000	3,540,000	295	6,000	1,770,000	669.796	6,000	4,018,776	1,770,000

Package-4 : M/s Taj Construction Pvt. Ltd.
Comparative Statement

Code No	Description	Engineer's Estimate				Bill of Quantities			Actual Work Done			Difference [A-B]
		Unit	Qtty	Rate	Amount (Rs) [A]	BOQ Qtty	Rate	Amount (Rs) [B]	Actual Qtty	Rate (Rs.)	Amount (Rs) [C]	
03-7C	Providing and installation of MS portal arch or portal frame with MS columns, MS bracing, MS purlins, plates, nut, bolts, washers etc.	tonne	13	575,000	7,475,000	13	450,000	5,850,000	22.508	450,000	10,128,600	1,625,000
	Total Code 03				**12,961,500**			**8,254,000**			**14,672,862**	**4,707,500**
4	**Conduiting for IITS Works**											
04-1C	Reinstatement of existing paving blocks/tiles including	Sqm	105	3,800	399,000	105	5,000	525,000	32	5,000	160,000	(126,000)
04-1E	Supply, installation, testing and commissioning of the following				-							
a	75 mm dia surface mounted GI conduit/pipe including clamp, saddle, supports or relevant accessories	RM	3,450	4,295	14,817,750	3,450	5,320	18,354,000	2,750.4	5,320	14,631,968	(3,536,250)
04-2E	GI pull box of minimnum size 300x150 mm as per manufacturer recommendation	No.	35	19,991	699,685	35	10,000	350,000	21	10,000	210,000	349,685
04-3E	RCC handhole of 600x600x600 mm	Job	7	75,150	526,050	7	50,000	350,000	8	50,000	400,000	176,050
04-4E	100 mm (internal dia) of underground uPVC class D pipe including accessories	RM	250	3,600	900,000	250	2,000	500,000	742.05	2,000	1,484,100	400,000
	Total Code 04				**17,342,485**			**20,079,000**			**16,886,068**	**(2,736,515)**
	Total Code 1, 2, 3 & 4				**69,523,535**			**58,574,500**			**55,191,607**	
	Add Sindh Sales Tax @ 8%				**5,561,883**			**4,685,960**			**4,415,329**	
	Grand Total Code 1, 2, 3, 4				**75,085,418**			**63,260,460**			**59,606,935**	**11,824,958**
5	**Additional Works**											
1	Docking Rubbers bus stations (04 No)	RM				327	11,486	3,756,004	327	11,486.00	3,755,922	
2	Extra Item : Supplying and laying 9 to 12 inch stone in foundation, plinth and under floor	CUM				19.77	3,839.06	75,898	19.77	3,839.06	75,898	(75,898)
3	Preparing the surface and repairing enamel grill	SQM							3153	592.07	1,866,797	
	Total Additional Work							**3,756,004**			**5,698,617**	

Package-4 : M/s Taj Construction Pvt. Ltd.
Comparative Statement

Code No	Description	Engineer's Estimate				Bill of Quantities			Actual Work Done			Difference [A-B]
		Unit	Qtty	Rate	Amount (Rs) [A]	BOQ Qtty	Rate	Amount (Rs) [B]	Actual Qtty	Rate (Rs.)	Amount (Rs) [C]	
	Add Sindh Sales Tax @ 8%										455,889	
											6,154,506	
	Grand Total				75,085,418			67,016,464			65,761,442	8,068,954

Package-4 : M/s Taj Construction Pvt. Ltd.
Comparative Statement

Code No	Description	Engineer's Estimate				Bill of Quantities			Actual Work Done			Difference [A-B]
		Unit	Qtty	Rate	Amount (Rs) [A]	BOQ Qtty	Rate	Amount (Rs) [B]	Actual Qtty	Rate (Rs.)	Amount (Rs) [C]	